

**Project Bottle Count Summary**

| <b>Container Type</b> | <b>Preservative</b> | <b>Number of Containers</b> |
|-----------------------|---------------------|-----------------------------|
| 40mL VOA Vial         | MeOH/ICE            | 3                           |
| Glass Jar             | NONE                | 2                           |
|                       | <b>Total</b>        | <b>5</b>                    |



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## Sub Contracted Data

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# **Analytical Report 598806**

**for**

## **Environmental Testing Laboratories, Inc.**

**Project Manager: Brad Williams**

**ETL Master**

**091118B**

**26-SEP-18**



**Xenco Laboratories**  
**1412 Tech Blvd.**  
**Tampa, FL 33619**  
**Ph:(813) 620-2000 Fax:(813) 620-2033**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)  
Xenco-Atlanta (LELAP Lab ID #04176)  
Xenco-Tampa: Florida (E87429)  
Xenco-Lakeland: Florida (E84098)



26-SEP-18

Project Manager: **Brad Williams**  
**Environmental Testing Laboratories, Inc.**  
412 W. Walcott Street  
Thomasville, GA 31792

Reference: XENCO Report No(s): **598806**  
**ETL Master**  
Project Address:

**Brad Williams:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 598806. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 598806 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Derek Rounsley**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



## Sample Cross Reference 598806

Environmental Testing Laboratories, Inc., Thomasville, G

ETL Master

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| 234655    | S      | 09-05-18 12:24 |              | 598806-001    |



## CASE NARRATIVE

*Client Name: Environmental Testing Laboratories, Inc.*

*Project Name: ETL Master*

Project ID: 091118B  
Work Order Number(s): 598806

Report Date: 26-SEP-18  
Date Received: 09/12/2018

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3062968 Percent Moisture by SM2540G

Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples in the analytical batch are: 598806-001.



## Hits Summary 598806

Environmental Testing Laboratories, Inc., Thomasville, GA  
ETL Master

Below is a summary of the analytes which were found to be present in the samples associated with this work order. This should only be used in conjunction with the included analytical results.

Sample ID: 234655      Sample ID: 598806-001      Date/Time Sampled: 09/05/2018 12:24      Matrix: Solid

| Analyte Name                      | Method  | CAS No.      | Dil. | Result | RL/PQL | MDL   | Units | Qual |
|-----------------------------------|---------|--------------|------|--------|--------|-------|-------|------|
| C11 to C22 Aromatics              | MA EPH  | C11C22       | 1    | 359    | 17.6   | 8.79  | mg/kg |      |
| C19 to C36 Aliphatic Hydrocarbons | MA EPH  | ALHYDRC19C36 | 1    | 301    | 82.8   | 41.4  | mg/kg |      |
| C9 to C10 Aromatic Hydrocarbons   | VPH     | HYDC9C10     | 34   | 4.34   | 0.896  | 0.896 | mg/kg |      |
| C9 to C12 Aliphatic Hydrocarbons  | VPH     | ALHYDRC9C12  | 34   | 8.72   | 7.16   | 7.16  | mg/kg |      |
| C9 to C18 Aliphatic Hydrocarbons  | MA EPH  | ALHYDRC9C18  | 1    | 663    | 62.1   | 31.0  | mg/kg |      |
| Percent Moisture                  | SM2540G | MOIST        | 1    | 5.05   |        |       | %     |      |



# Certificate of Analytical Results 598806

**Environmental Testing Laboratories, Inc., Thomasville, GA**

ETL Master

|  |                                |                               |
|--|--------------------------------|-------------------------------|
| Sample Id: <b>234655</b>               | Matrix: Soil                   | Date Received: 09.12.18 12.51 |
| Lab Sample Id: 598806-001              | Date Collected: 09.05.18 12.24 |                               |
| Analytical Method: EPH by MADEP Method |                                | Prep Method: SW3545           |
| Tech: GEP                              |                                | % Moisture: 5.05              |
| Analyst: BRJ                           | Date Prep: 09.19.18 16.00      | Basis: Dry Weight             |
| Seq Number: 3064462                    |                                |                               |

| Parameter                                | Cas Number   | Result     | RL   | MDL  | Flag | Units | Analysis Date  | Dil |
|--|--------------|------------|------|------|------|-------|----------------|-----|
| <b>C9 to C18 Aliphatic Hydrocarbons</b>  | ALHYDRC9C18  | <b>663</b> | 62.1 | 31.0 |      | mg/kg | 09.26.18 11.12 | 5   |
| <b>C19 to C36 Aliphatic Hydrocarbons</b> | ALHYDRC19C36 | <b>301</b> | 82.8 | 41.4 |      | mg/kg | 09.26.18 11.12 | 5   |
| <b>C11 to C22 Aromatics</b>              | C11C22       | <b>359</b> | 17.6 | 8.79 |      | mg/kg | 09.26.18 14.07 | 1   |

| Surrogate          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|--------------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctadecane | 3386-33-2  | 89         | %     | 40-140 | 09.25.18 22.46 |      |
| o-Terphenyl        | 84-15-1    | 115        | %     | 40-140 | 09.26.18 14.07 |      |
| 2-Fluorobiphenyl   | 321-60-8   | 106        | %     | 40-140 | 09.26.18 14.07 |      |

|                        |                           |
|------------------------|---------------------------|
| Analytical Method: VPH | Prep Method: SW5035A      |
| Tech: JNL              | % Moisture: 5.05          |
| Analyst: JNL           | Date Prep: 09.14.18 09.44 |
| Seq Number: 3063335    | Basis: Dry Weight         |

| Parameter                               | Cas Number  | Result      | RL    | MDL   | Flag | Units | Analysis Date  | Dil |
|---|-------------|-------------|-------|-------|------|-------|----------------|-----|
| C5 to C8 Aliphatic Hydrocarbons         | ALHYDRC5C8  | U           | 5.37  | 5.37  | U    | mg/kg | 09.14.18 21.26 | 50  |
| <b>C9 to C12 Aliphatic Hydrocarbons</b> | ALHYDRC9C12 | <b>8.72</b> | 7.16  | 7.16  |      | mg/kg | 09.14.18 21.26 | 50  |
| <b>C9 to C10 Aromatic Hydrocarbons</b>  | HYDC9C10    | <b>4.34</b> | 0.896 | 0.896 |      | mg/kg | 09.14.18 21.26 | 50  |

| Surrogate                | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|--------------------------|------------|------------|-------|--------|----------------|------|
| 2,5-Dibromotoluene       | 615-59-8   | 88         | %     | 70-130 | 09.14.18 21.26 |      |
| 2,5-Dibromotoluene (PID) | 615-59-8   | 102        | %     | 70-130 | 09.14.18 21.26 |      |



# CHRONOLOGY OF HOLDING TIMES

Analytical Method : EPH by MADEP Method

Client : Environmental Testing Laboratories, I

Work Order #: **598806**

Project ID: 091118B

Date Received: 09/12/18

| Field Sample ID | Lab Sample ID | Date Collected | Date Extracted | Max Holding Time Extracted (Days) | Time Held Extracted (Days) | Date Analyzed | Max Holding Time Analyzed (Days) | Time Held Analyzed (Days) | Q |
|-----------------|---------------|----------------|----------------|-----------------------------------|----------------------------|---------------|----------------------------------|---------------------------|---|
| 234655          | 598806-001    | 09/05/18       | 09/19/18       | 14                                | 14                         | 09/25/18      | 40                               | 6                         | P |
| 234655          | 598806-001    | 09/05/18       | 09/19/18       | 14                                | 14                         | 09/26/18      | 40                               | 7                         | P |



# CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture by SM2540G

Client : Environmental Testing Laboratories, I

Work Order #: **598806**

Project ID: 091118B

Date Received: 09/12/18

| Field Sample ID | Lab Sample ID | Date Collected | Date Extracted | Max Holding Time Extracted (Days) | Time Held Extracted (Days) | Date Analyzed | Max Holding Time Analyzed (Days) | Time Held Analyzed (Days) | Q |
|-----------------|---------------|----------------|----------------|-----------------------------------|----------------------------|---------------|----------------------------------|---------------------------|---|
| 234655          | 598806-001    | 09/05/18       |                |                                   |                            | 09/12/18      | 180                              | 7                         | P |



# CHRONOLOGY OF HOLDING TIMES

Analytical Method : VPH  
Work Order #: **598806**  
Date Received: 09/12/18

Client : Environmental Testing Laboratories, I  
Project ID: 091118B

| Field Sample ID | Lab Sample ID | Date Collected | Date Extracted | Max Holding Time Extracted (Days) | Time Held Extracted (Days) | Date Analyzed | Max Holding Time Analyzed (Days) | Time Held Analyzed (Days) | Q |
|-----------------|---------------|----------------|----------------|-----------------------------------|----------------------------|---------------|----------------------------------|---------------------------|---|
| 234655          | 598806-001    | 09/05/18       |                |                                   |                            | 09/14/18      | 28                               | 9                         | P |

F = These samples were analyzed outside the recommended holding time.  
P = Samples analyzed within the recommended holding time.

## FLORIDA flagging criteria

Data were reviewed by the  
Department Supervisor and QA Director

- A** Value reported is the mean (average) of two or more determinations.
- B** Results based upon colony counts outside the acceptable range.
- J** Estimated value; value not accurate. All results with a "J" qualifier require comment.
  - J1: Surrogate Recoveries exceed established QA/QC Limits
  - J2: No known QA/QC exists.
  - J3: Reported value failed to meet established QA/QC limits or the sample matrix interfered with the ability to make an accurate determination
  - J4: The data is questionable due to improper laboratory or field protocols
- Q** Sample held beyond the accepted holding time
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Compound was analyzed for but not detected at the MDL Level.
- V** Analyte was detected in both the sample and the associated method blank.
- Y** Laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- I** The reported value is between the laboratory MDL and the laboratory PQL.
- R** Significant rain in the past 48 hours.
- +** NELAC certification not offered for this compound.
- \*** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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*Certified and approved by numerous States and Agencies.*

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Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

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| Phone          | Fax            |
|----------------|----------------|
| (281) 240-4200 | (281) 240-4280 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (432) 563-1800 | (432) 563-1713 |
| (770) 449-8800 | (770) 449-5477 |
| (602) 437-0330 |                |



Environmental Testing Laboratories, Inc.  
ETL Master

**Analytical Method: Percent Moisture by SM2540G**

Seq Number: 3062968 Matrix: Soil  
Parent Sample Id: 598805-001 MD Sample Id: 598805-001 D

| Parameter        | Parent Result | MD Result | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|------------------|---------------|-----------|------|-----------|-------|----------------|------|
| Percent Moisture | 4.77          | 7.24      | 41   | 20        | %     | 09.12.18 13:21 | J    |

**Analytical Method: EPH by MADEP Method**

Seq Number: 3064462 Matrix: Solid Prep Method: SW3545  
MB Sample Id: 7662646-1-BLK LCS Sample Id: 7662646-1-BKS Date Prep: 09.19.18  
LCSD Sample Id: 7662646-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| C9 to C18 Aliphatic Hydrocarbons  | <6.00     | 30.0         | 16.6       | 55       | 15.8        | 53        | 40-140 | 5    | 25        | mg/kg | 09.26.18 14:06 |      |
| C19 to C36 Aliphatic Hydrocarbons | <8.00     | 40.0         | 30.7       | 77       | 30.6        | 77        | 40-140 | 0    | 25        | mg/kg | 09.26.18 14:06 |      |
| C11 to C22 Aromatics              | <8.50     | 85.0         | 62.3       | 73       | 61.0        | 72        | 40-140 | 2    | 25        | mg/kg | 09.26.18 14:07 |      |

| Surrogate          | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|--------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctadecane | 93      |         | 97       |          | 86        |           | 40-140 | %     | 09.26.18 14:06 |
| o-Terphenyl        | 99      |         | 96       |          | 92        |           | 40-140 | %     | 09.26.18 14:07 |
| 2-Fluorobiphenyl   | 118     |         | 111      |          | 112       |           | 40-140 | %     | 09.26.18 14:07 |

**Analytical Method: VPH**

Seq Number: 3063335 Matrix: Solid Prep Method: SW5035A  
MB Sample Id: 7662252-1-BLK LCS Sample Id: 7662252-1-BKS Date Prep: 09.14.18  
LCSD Sample Id: 7662252-1-BSD

| Parameter                        | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| C5 to C8 Aliphatic Hydrocarbons  | <0.150    | 0.300        | 0.269      | 90       | 0.283       | 94        | 70-130 | 5    | 25        | mg/kg | 09.14.18 12:06 |      |
| C9 to C12 Aliphatic Hydrocarbons | <0.200    | 0.400        | 0.329      | 82       | 0.370       | 93        | 70-130 | 12   | 25        | mg/kg | 09.14.18 12:06 |      |
| C9 to C10 Aromatic Hydrocarbons  | <0.0250   | 0.0500       | 0.0551     | 110      | 0.0521      | 104       | 70-130 | 6    | 25        | mg/kg | 09.14.18 12:06 |      |

| Surrogate                | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|--------------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 2,5-Dibromotoluene       | 96      |         | 86       |          | 102       |           | 70-130 | %     | 09.14.18 12:06 |
| 2,5-Dibromotoluene (PID) | 92      |         | 96       |          | 103       |           | 70-130 | %     | 09.14.18 12:06 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* |(C-E) / (C+E)|  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



Environmental Testing Laboratories, Inc.

ETL Master

Analytical Method: VPH

Seq Number: 3063335

Parent Sample Id: 596673-001

Matrix: Solid

MS Sample Id: 596673-001 S

Prep Method: SW5035A

Date Prep: 09.14.18

MSD Sample Id: 596673-001 SD

| Parameter                        | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| C5 to C8 Aliphatic Hydrocarbons  | 765           | 16.2         | 1120      | 2191    | 1060       | 1821     | 70-130 | 6    | 25        | mg/kg | 09.15.18 00:32 | J    |
| C9 to C12 Aliphatic Hydrocarbons | 138           | 21.6         | 206       | 315     | 199        | 282      | 70-130 | 3    | 25        | mg/kg | 09.15.18 00:32 | J    |
| C9 to C10 Aromatic Hydrocarbons  | 67.0          | 2.70         | 89.5      | 833     | 86.4       | 719      | 70-130 | 4    | 25        | mg/kg | 09.15.18 00:32 | J    |

| Surrogate                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|--------------------------|---------|---------|----------|----------|--------|-------|----------------|
| 2,5-Dibromotoluene       | 114     |         | 116      |          | 70-130 | %     | 09.15.18 00:32 |
| 2,5-Dibromotoluene (PID) | 108     |         | 108      |          | 70-130 | %     | 09.15.18 00:32 |

MS/MSD Percent Recovery  
 Relative Percent Difference  
 LCS/LCSD Recovery  
 Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec

# Chain of Custody Record

598806

**Company:** Environmental Testing Laboratories, Inc


**Address:** 412 W. Walcott, Thomasville, GA 31792

**Telephone:** (229)-228-2592    **Telefax:** (229)-228-2594

**Sampled by [Print Name(s)] / Affiliation**

**Sampler(s) Signature(s)**

**Environmental Testing Laboratories, Inc.**



412 W. Walcott Street  
Thomasville, GA 31792-4359  
229/228-2592 (Telephone)  
229/228-2594 (TeleFax)  
www.etl-inc.com

**Analyses Requested**

Page 1 of 1

**Project Name:**

**Project Number:** 0911188

**Project Manager:** bwilliams@etl-inc.com

**Facility ID Number:**

**Requested Due Date:**

**STANDARD**

**Remarks**

**Lab Number**

← Preservative (see Codes) ICE:  Yes  No

| Item No.   | Field ID No. | Sample |       | Grab / Composite | Matrix (See Codes) | Number of Containers | MAYPH (EPA 8015) | MEOH (EPA 8015) | Date    | Time  | Accepted By / Affiliation | Date    | Time  | ← Preservative (see Codes) | ICE: | Yes | No |
|--|--------------|--------|-------|------------------|--------------------|----------------------|------------------|-----------------|---------|-------|---------------------------|---------|-------|----------------------------|------|-----|----|
|  |              | Date   | Time  |                  |                    |                      |                  |                 |         |       |                           |         |       |                            |      |     |    |
| 1  | 234655       | 9/5/18 | 12:24 | G                | Soil               | 4                    | 3                | 1               | 9/11/18 | 15:30 | <i>[Signature]</i>        | 9/12/18 | 12:51 |                            |      |     |    |
| <p><b>Shipment Method</b></p> <p>Out: / / Via:</p> <p>Returned: / / Via:</p> <p>Additional Comments:</p> |              |        |       |                  |                    |                      |                  |                 |         |       |                           |         |       |                            |      |     |    |
| <p>Cooler Number(s) / Temperature(s) °C    <b>3.3</b></p> <p>Received in Lab By:</p>                     |              |        |       |                  |                    |                      |                  |                 |         |       |                           |         |       |                            |      |     |    |

**Matrix Codes:** A = Air    GW = Groundwater    SE = Sediment    SO = Soil    SW = Surface Water    WW = Wastewater    O = Other (Specify)

**Preservative Codes:** H = Hydrochloric Acid    S = Sulfuric Acid    N = Nitric Acid    Na = Sodium Hydroxide    O = Other (Specify)

MS = Methanol / Sodium Bisulfate    MD = Methanol / DI Water

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ETL Project No.



# **FINAL** **ANALYTICAL REPORT**

ETL PROJECT ID: 17-3399

10/31/2017 - Revision 0

ANDRES SANCHEZ  
ADVANCED ENVIRONMENTAL TECHNOLOGIES  
4265 NEW TAMPA HIGHWAY  
LAKELAND, FL 33815  
TEL: (863) 619-9708  
FAX: (863) 619-7467

CLIENT PROJECT NAME: DADE CNTY SCHOOL BD-TRANSPORTATION  
CLIENT PROJECT ID: 26672.00  
FACILITY ID: 13/8628726

Enclosed are the analytical results for sample(s) received by Environmental Testing Laboratories on October 24, 2017. Results reported herein are reported on an as received basis and conform to current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Sample analyses performed by Environmental Testing Laboratories, Inc. (ETL) unless otherwise noted. ETL is accredited through NELAC and the Florida Department of Health, Certification #E87684. Scope of analyses: RCRA/CERCLA Metals, General Chemistry, Extractable Organics, and Volatile Organics. Effective Dates: February 14, 2002 through June 30, 2018.

This report shall not be reproduced, except in full, without the written consent of Environmental Testing Laboratories, Inc. This report has been signed and authorized by the signatory using an electronic signature and is intended to be the legally binding equivalent of a traditionally handwritten signature.

Authorized for release by:



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## Laboratory Qualifiers

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- ! Data deviate from historically established concentration ranges.
- # Surrogate compound inadvertently omitted.
- \$ Due to dilution, surrogate compound was not detected.
- \* Not reported due to interference
- ? Data are rejected as should not be used.
- A Value reported is the arithmetic mean (average) of two or more determinations.
- B Results based upon colony counts outside the acceptable range.
- D Measurement made in the field.
- E Extra samples were taken at composite stations.
- F When reporting species, F indicates the female sex.
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J Estimated value.
- K Off-scale low. Actual value is known to be less than the value given.
- L Off-scale high. Actual value is known to be greater than the value given.
- M Presence of material is verified but not quantified; the actual value is less than the value given.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed.
- Q Sample held beyond the accepted holding time.
- R Significant rain in the past 48 hours.
- S1 Surrogate recovery reported is outside of laboratory established QA/QC Limits
- S2 Analyte recovery reported is outside of laboratory established QA/QC Limits
- S3 Analyte precision reported is outside of laboratory established QA/QC Limits
- T Value reported is less than the laboratory method detection limit.
- U Compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y Laboratory analysis was from an improperly preserved sample. Data may not be accurate.
- Z Too many colonies were present; numeric value represents the filtration volume.

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## Project Narrative

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Environmental Testing Laboratories, Inc. is accredited through NELAC and the Florida Department of Health.



Solid samples are reported on a dry weight basis unless otherwise noted.



Please refer to Section 4.0 of the ETL Quality Assurance Manual for a measure of uncertainty.



All analyses are performed using EPA or FL-DEP methods and certified to meet NELAC requirements, except where noted.



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## Analytical Method Summary

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**E87582** Analytical Environmental Services Inc.  
3080 Presidential Drive, Atlanta, GA 30340  
(770) 457-8177

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane (EPA 8011) SW-846 Final Update III

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**E87684** Environmental Testing Laboratories Inc.  
412 W. Walcott Street, Thomasville, GA 31792  
(229) 228-2592

ICP (EPA 6010)

SW-846 Final Update III

GC/MS (EPA 8260)

SW-846 Final Update III

Semivolatiles low level for PAH only (EPA 8270/PAH Low Level)

GC/FID (FDEP FL-PRO)

Florida Department of Environmental Protection

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## Sample Summary

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| Laboratory Sample ID | Client Sample ID | Matrix              | End Date / Time Sampled | Grab / Composite | Percent Moisture |
|----------------------|------------------|---------------------|-------------------------|------------------|------------------|
| 220610               | MW-10            | AQUEOUS-Groundwater | 10/17/2017 12:38        | G                |                  |
| 220611               | MW-11            | AQUEOUS-Groundwater | 10/17/2017 13:37        | G                |                  |
| 220612               | MW-12            | AQUEOUS-Groundwater | 10/17/2017 14:41        | G                |                  |
| 220613               | MW-2             | AQUEOUS-Groundwater | 10/17/2017 15:48        | G                |                  |
| 220614               | MW-4             | AQUEOUS-Groundwater | 10/17/2017 17:12        | G                |                  |
| 220615               | MW-13            | AQUEOUS-Groundwater | 10/17/2017 17:45        | G                |                  |
| 220616               | MW-5             | AQUEOUS-Groundwater | 10/17/2017 18:22        | G                |                  |
| 220617               | MW-6             | AQUEOUS-Groundwater | 10/17/2017 19:00        | G                |                  |
| 220618               | MW-8             | AQUEOUS-Groundwater | 10/17/2017 19:42        | G                |                  |
| 220619               | MW-A             | AQUEOUS-Groundwater | 10/18/2017 8:41         | G                |                  |
| 220620               | MW-9             | AQUEOUS-Groundwater | 10/18/2017 9:17         | G                |                  |
| 220621               | MW-3             | AQUEOUS-Groundwater | 10/18/2017 10:17        | G                |                  |
| 220622               | MW-1             | AQUEOUS-Groundwater | 10/18/2017 11:27        | G                |                  |
| 220623               | MW-7             | AQUEOUS-Groundwater | 10/18/2017 12:32        | G                |                  |

## Executive Summary

| Analyte                             | Analytical Method      | Result | Units | Qualifiers | Result Comments |
|-------------------------------------|------------------------|--------|-------|------------|-----------------|
| <b>MW-10 (220610)</b>               |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 1.8    | ug/L  |            |                 |
| 2-Methylnaphthalene                 | EPA 8270/PAH Low Level | 0.55   | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 0.69   | ug/L  |            |                 |
| Fluoranthene                        | EPA 8270/PAH Low Level | 0.23   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 1.1    | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.49   | ug/L  |            |                 |
| Phenanthrene                        | EPA 8270/PAH Low Level | 0.55   | ug/L  |            |                 |
| Pyrene                              | EPA 8270/PAH Low Level | 0.26   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 780    | ug/L  |            |                 |
| <b>MW-11 (220611)</b>               |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 3.1    | ug/L  |            |                 |
| 2-Methylnaphthalene                 | EPA 8270/PAH Low Level | 2.6    | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 1.1    | ug/L  |            |                 |
| Acenaphthylene                      | EPA 8270/PAH Low Level | 0.24   | ug/L  |            |                 |
| Fluoranthene                        | EPA 8270/PAH Low Level | 0.19   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 2.1    | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.86   | ug/L  |            |                 |
| Phenanthrene                        | EPA 8270/PAH Low Level | 1.4    | ug/L  |            |                 |
| Pyrene                              | EPA 8270/PAH Low Level | 0.27   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 1600   | ug/L  |            |                 |
| <b>MW-12 (220612)</b>               |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 1.1    | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 0.53   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 0.54   | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.48   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 1200   | ug/L  |            |                 |
| <b>MW-2 (220613)</b>                |                        |        |       |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.15   | ug/L  |            |                 |
| Phenanthrene                        | EPA 8270/PAH Low Level | 0.26   | ug/L  |            |                 |
| Pyrene                              | EPA 8270/PAH Low Level | 0.22   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 2000   | ug/L  |            |                 |

## Executive Summary

| Analyte                             | Analytical Method      | Result | Units | Qualifiers | Result Comments |
|-------------------------------------|------------------------|--------|-------|------------|-----------------|
| <b>MW-13 (220615)</b>               |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 12     | ug/L  |            |                 |
| 2-Methylnaphthalene                 | EPA 8270/PAH Low Level | 7.7    | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 0.59   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 0.87   | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 1.2    | ug/L  |            |                 |
| Phenanthrene                        | EPA 8270/PAH Low Level | 0.45   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 1400   | ug/L  |            |                 |
| <b>MW-6 (220617)</b>                |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 0.25   | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 0.57   | ug/L  |            |                 |
| Anthracene                          | EPA 8270/PAH Low Level | 1.5    | ug/L  |            |                 |
| Benzo(a)anthracene                  | EPA 8270/PAH Low Level | 0.66   | ug/L  |            |                 |
| Benzo(a)pyrene                      | EPA 8270/PAH Low Level | 1.5    | ug/L  |            |                 |
| Benzo(b)fluoranthene                | EPA 8270/PAH Low Level | 2.7    | ug/L  |            |                 |
| Benzo(g,h,i)perylene                | EPA 8270/PAH Low Level | 1.2    | ug/L  |            |                 |
| Benzo(k)fluoranthene                | EPA 8270/PAH Low Level | 1.0    | ug/L  |            |                 |
| Chrysene                            | EPA 8270/PAH Low Level | 2.1    | ug/L  |            |                 |
| Dibenzo(a,h)anthracene              | EPA 8270/PAH Low Level | 0.25   | ug/L  |            |                 |
| Fluoranthene                        | EPA 8270/PAH Low Level | 4.8    | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 1.6    | ug/L  |            |                 |
| Indeno(1,2,3-cd)pyrene              | EPA 8270/PAH Low Level | 1.3    | ug/L  |            |                 |
| Phenanthrene                        | EPA 8270/PAH Low Level | 1.9    | ug/L  |            |                 |
| Pyrene                              | EPA 8270/PAH Low Level | 4.7    | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 4500   | ug/L  |            |                 |
| <b>MW-A (220619)</b>                |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 1.6    | ug/L  |            |                 |
| 2-Methylnaphthalene                 | EPA 8270/PAH Low Level | 0.42   | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 0.40   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 0.28   | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.33   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 2000   | ug/L  |            |                 |

## Executive Summary

| Analyte                             | Analytical Method      | Result | Units | Qualifiers | Result Comments |
|-------------------------------------|------------------------|--------|-------|------------|-----------------|
| <b>MW-9 (220620)</b>                |                        |        |       |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 820    | ug/L  |            |                 |
| <b>MW-1 (220622)</b>                |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 0.27   | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.18   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 770    | ug/L  |            |                 |

# Analytical Data

Client Sample ID: MW-10

Laboratory Sample ID: 220610

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 12:38 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/26/2017 2:34:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/26/2017 2:34:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/26/2017 2:34:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/26/2017 2:34:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/26/2017 2:34:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 1.0 | 103        |           |       | 75% - 117% |     | 10/26/2017 2:34:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 104        |           |       | 68% - 118% |     | 10/26/2017 2:34:00 AM |
| Dibromofluoromethane  | 1.0 | 98.7       |           |       | 75% - 113% |     | 10/26/2017 2:34:00 AM |
| Toluene-d8            | 1.0 | 104        |           |       | 76% - 115% |     | 10/26/2017 2:34:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date          |
|------------------------|-----|------------|-----------|-------|------------|------|------------------------|
| 1-Methylnaphthalene    | 1.0 | 1.8        | I         | ug/L  | 0.21       | 2.0  | 10/25/2017 11:24:00 PM |
| 2-Methylnaphthalene    | 1.0 | 0.55       | I         | ug/L  | 0.21       | 2.0  | 10/25/2017 11:24:00 PM |
| Acenaphthene           | 1.0 | 0.69       | I         | ug/L  | 0.26       | 2.0  | 10/25/2017 11:24:00 PM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/25/2017 11:24:00 PM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/25/2017 11:24:00 PM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/25/2017 11:24:00 PM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/25/2017 11:24:00 PM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/25/2017 11:24:00 PM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/25/2017 11:24:00 PM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/25/2017 11:24:00 PM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/25/2017 11:24:00 PM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/25/2017 11:24:00 PM |
| Fluoranthene           | 1.0 | 0.23       | I         | ug/L  | 0.17       | 2.0  | 10/25/2017 11:24:00 PM |
| Fluorene               | 1.0 | 1.1        | I         | ug/L  | 0.16       | 2.0  | 10/25/2017 11:24:00 PM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/25/2017 11:24:00 PM |
| Naphthalene            | 1.0 | 0.49       | I         | ug/L  | 0.13       | 2.0  | 10/25/2017 11:24:00 PM |
| Phenanthrene           | 1.0 | 0.55       | I         | ug/L  | 0.26       | 2.0  | 10/25/2017 11:24:00 PM |
| Pyrene                 | 1.0 | 0.26       | I         | ug/L  | 0.18       | 2.0  | 10/25/2017 11:24:00 PM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date          |
| 2-Fluorobiphenyl       | 1.0 | 87.1       |           |       | 31% - 110% |      | 10/25/2017 11:24:00 PM |
| Nitrobenzene-d5        | 1.0 | 90.6       |           |       | 24% - 100% |      | 10/25/2017 11:24:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      91.0      45% - 125%      10/25/2017 11:24:00 PM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 780        |           | ug/L  | 76         | 500 | 10/25/2017 9:12:00 PM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.0 | 82.7       |           |       | 42% - 193% |     | 10/25/2017 9:12:00 PM |
| Ortho-terphenyl                     | 1.0 | 121        |           |       | 82% - 142% |     | 10/25/2017 9:12:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-11

Laboratory Sample ID: 220611

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 01:37 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/26/2017 2:59:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/26/2017 2:59:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/26/2017 2:59:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/26/2017 2:59:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/26/2017 2:59:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 1.0 | 102        |           |       | 75% - 117% |     | 10/26/2017 2:59:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 105        |           |       | 68% - 118% |     | 10/26/2017 2:59:00 AM |
| Dibromofluoromethane  | 1.0 | 99.3       |           |       | 75% - 113% |     | 10/26/2017 2:59:00 AM |
| Toluene-d8            | 1.0 | 104        |           |       | 76% - 115% |     | 10/26/2017 2:59:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date |
|------------------------|-----|------------|-----------|-------|------------|------|---------------|
| 1-Methylnaphthalene    | 1.0 | 3.1        |           | ug/L  | 0.21       | 2.0  | 10/26/2017    |
| 2-Methylnaphthalene    | 1.0 | 2.6        |           | ug/L  | 0.21       | 2.0  | 10/26/2017    |
| Acenaphthene           | 1.0 | 1.1        | I         | ug/L  | 0.26       | 2.0  | 10/26/2017    |
| Acenaphthylene         | 1.0 | 0.24       | I         | ug/L  | 0.19       | 2.0  | 10/26/2017    |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017    |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017    |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017    |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017    |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017    |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017    |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017    |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017    |
| Fluoranthene           | 1.0 | 0.19       | I         | ug/L  | 0.17       | 2.0  | 10/26/2017    |
| Fluorene               | 1.0 | 2.1        |           | ug/L  | 0.16       | 2.0  | 10/26/2017    |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017    |
| Naphthalene            | 1.0 | 0.86       | I         | ug/L  | 0.13       | 2.0  | 10/26/2017    |
| Phenanthrene           | 1.0 | 1.4        | I         | ug/L  | 0.26       | 2.0  | 10/26/2017    |
| Pyrene                 | 1.0 | 0.27       | I         | ug/L  | 0.18       | 2.0  | 10/26/2017    |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date |
| 2-Fluorobiphenyl       | 1.0 | 86.8       |           |       | 31% - 110% |      | 10/26/2017    |
| Nitrobenzene-d5        | 1.0 | 91.4       |           |       | 24% - 100% |      | 10/26/2017    |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

## Analytical Data

p-Terphenyl-d14      1.0      101      45% - 125%      10/26/2017

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 1600       |           | ug/L  | 76         | 500 | 10/25/2017 9:50:00 PM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.0 | 82.4       |           |       | 42% - 193% |     | 10/25/2017 9:50:00 PM |
| Ortho-terphenyl                     | 1.0 | 129        |           |       | 82% - 142% |     | 10/25/2017 9:50:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-12

Laboratory Sample ID: 220612

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 02:41 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Benzene               | 2.0 | 1.0        | U         | ug/L  | 1.0        | 2.0 | 10/26/2017 8:24:00 PM |
| Ethylbenzene          | 2.0 | 0.68       | U         | ug/L  | 0.68       | 2.0 | 10/26/2017 8:24:00 PM |
| Methyl-t-butyl ether  | 2.0 | 0.98       | U         | ug/L  | 0.98       | 2.0 | 10/26/2017 8:24:00 PM |
| Toluene               | 2.0 | 0.82       | U         | ug/L  | 0.82       | 2.0 | 10/26/2017 8:24:00 PM |
| Xylenes- Total        | 2.0 | 2.8        | U         | ug/L  | 2.8        | 6.0 | 10/26/2017 8:24:00 PM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 2.0 | 97.8       |           |       | 75% - 117% |     | 10/26/2017 8:24:00 PM |
| 4-Bromofluorobenzene  | 2.0 | 107        |           |       | 68% - 118% |     | 10/26/2017 8:24:00 PM |
| Dibromofluoromethane  | 2.0 | 97.8       |           |       | 75% - 113% |     | 10/26/2017 8:24:00 PM |
| Toluene-d8            | 2.0 | 98.7       |           |       | 76% - 115% |     | 10/26/2017 8:24:00 PM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date          |
|------------------------|-----|------------|-----------|-------|------------|------|------------------------|
| 1-Methylnaphthalene    | 1.0 | 1.1        | I         | ug/L  | 0.21       | 2.0  | 10/26/2017 12:37:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 12:37:00 AM |
| Acenaphthene           | 1.0 | 0.53       | I         | ug/L  | 0.26       | 2.0  | 10/26/2017 12:37:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 12:37:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 12:37:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 12:37:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 12:37:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 12:37:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 12:37:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 12:37:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 12:37:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 12:37:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 12:37:00 AM |
| Fluorene               | 1.0 | 0.54       | I         | ug/L  | 0.16       | 2.0  | 10/26/2017 12:37:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 12:37:00 AM |
| Naphthalene            | 1.0 | 0.48       | I         | ug/L  | 0.13       | 2.0  | 10/26/2017 12:37:00 AM |
| Phenanthrene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 12:37:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 10/26/2017 12:37:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date          |
| 2-Fluorobiphenyl       | 1.0 | 78.5       |           |       | 31% - 110% |      | 10/26/2017 12:37:00 AM |
| Nitrobenzene-d5        | 1.0 | 87.4       |           |       | 24% - 100% |      | 10/26/2017 12:37:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      83.0      45% - 125%      10/26/2017 12:37:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 1200       |           | ug/L  | 76         | 500 | 10/25/2017 11:05:00 PM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| Nonatriacontane(C39)                | 1.0 | 79.0       |           |       | 42% - 193% |     | 10/25/2017 11:05:00 PM |
| Ortho-terphenyl                     | 1.0 | 123        |           |       | 82% - 142% |     | 10/25/2017 11:05:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-2

Laboratory Sample ID: 220613

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 03:48 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-----------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/26/2017 10:52:00 PM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/26/2017 10:52:00 PM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/26/2017 10:52:00 PM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/26/2017 10:52:00 PM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/26/2017 10:52:00 PM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| 1,2-Dichloroethane-d4 | 1.0 | 100        |           |       | 75% - 117% |     | 10/26/2017 10:52:00 PM |
| 4-Bromofluorobenzene  | 1.0 | 106        |           |       | 68% - 118% |     | 10/26/2017 10:52:00 PM |
| Dibromofluoromethane  | 1.0 | 96.5       |           |       | 75% - 113% |     | 10/26/2017 10:52:00 PM |
| Toluene-d8            | 1.0 | 104        |           |       | 76% - 115% |     | 10/26/2017 10:52:00 PM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 1:14:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 1:14:00 AM |
| Acenaphthene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 1:14:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 1:14:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 1:14:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 1:14:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 1:14:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 1:14:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 1:14:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 1:14:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 1:14:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 1:14:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 1:14:00 AM |
| Fluorene               | 1.0 | 0.16       | U         | ug/L  | 0.16       | 2.0  | 10/26/2017 1:14:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 1:14:00 AM |
| Naphthalene            | 1.0 | 0.15       | I         | ug/L  | 0.13       | 2.0  | 10/26/2017 1:14:00 AM |
| Phenanthrene           | 1.0 | 0.26       | I         | ug/L  | 0.26       | 2.0  | 10/26/2017 1:14:00 AM |
| Pyrene                 | 1.0 | 0.22       | I         | ug/L  | 0.18       | 2.0  | 10/26/2017 1:14:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 81.4       |           |       | 31% - 110% |      | 10/26/2017 1:14:00 AM |
| Nitrobenzene-d5        | 1.0 | 92.6       |           |       | 24% - 100% |      | 10/26/2017 1:14:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      97.8      45% - 125%      10/26/2017 1:14:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 2000       |           | ug/L  | 76         | 500 | 10/25/2017 11:42:00 PM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| Nonatriacontane(C39)                | 1.0 | 94.8       |           |       | 42% - 193% |     | 10/25/2017 11:42:00 PM |
| Ortho-terphenyl                     | 1.0 | 111        |           |       | 82% - 142% |     | 10/25/2017 11:42:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-4

Laboratory Sample ID: 220614

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 05:12 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-----------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/26/2017 11:16:00 PM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/26/2017 11:16:00 PM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/26/2017 11:16:00 PM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/26/2017 11:16:00 PM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/26/2017 11:16:00 PM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| 1,2-Dichloroethane-d4 | 1.0 | 102        |           |       | 75% - 117% |     | 10/26/2017 11:16:00 PM |
| 4-Bromofluorobenzene  | 1.0 | 106        |           |       | 68% - 118% |     | 10/26/2017 11:16:00 PM |
| Dibromofluoromethane  | 1.0 | 98.0       |           |       | 75% - 113% |     | 10/26/2017 11:16:00 PM |
| Toluene-d8            | 1.0 | 98.3       |           |       | 76% - 115% |     | 10/26/2017 11:16:00 PM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 1:50:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 1:50:00 AM |
| Acenaphthene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 1:50:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 1:50:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 1:50:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 1:50:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 1:50:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 1:50:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 1:50:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 1:50:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 1:50:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 1:50:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 1:50:00 AM |
| Fluorene               | 1.0 | 0.16       | U         | ug/L  | 0.16       | 2.0  | 10/26/2017 1:50:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 1:50:00 AM |
| Naphthalene            | 1.0 | 0.13       | U         | ug/L  | 0.13       | 2.0  | 10/26/2017 1:50:00 AM |
| Phenanthrene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 1:50:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 10/26/2017 1:50:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 77.0       |           |       | 31% - 110% |      | 10/26/2017 1:50:00 AM |
| Nitrobenzene-d5        | 1.0 | 87.1       |           |       | 24% - 100% |      | 10/26/2017 1:50:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      88.9      45% - 125%      10/26/2017 1:50:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 76         | U         | ug/L  | 76         | 500 | 10/26/2017 12:19:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| Nonatriacontane(C39)                | 1.0 | 67.6       |           |       | 42% - 193% |     | 10/26/2017 12:19:00 AM |
| Ortho-terphenyl                     | 1.0 | 106        |           |       | 82% - 142% |     | 10/26/2017 12:19:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-13

Laboratory Sample ID: 220615

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 05:45 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-----------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/26/2017 11:41:00 PM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/26/2017 11:41:00 PM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/26/2017 11:41:00 PM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/26/2017 11:41:00 PM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/26/2017 11:41:00 PM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| 1,2-Dichloroethane-d4 | 1.0 | 97.7       |           |       | 75% - 117% |     | 10/26/2017 11:41:00 PM |
| 4-Bromofluorobenzene  | 1.0 | 118        |           |       | 68% - 118% |     | 10/26/2017 11:41:00 PM |
| Dibromofluoromethane  | 1.0 | 96.0       |           |       | 75% - 113% |     | 10/26/2017 11:41:00 PM |
| Toluene-d8            | 1.0 | 105        |           |       | 76% - 115% |     | 10/26/2017 11:41:00 PM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 12         |           | ug/L  | 0.21       | 2.0  | 10/26/2017 2:27:00 AM |
| 2-Methylnaphthalene    | 1.0 | 7.7        |           | ug/L  | 0.21       | 2.0  | 10/26/2017 2:27:00 AM |
| Acenaphthene           | 1.0 | 0.59       | I         | ug/L  | 0.26       | 2.0  | 10/26/2017 2:27:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 2:27:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 2:27:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 2:27:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 2:27:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 2:27:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 2:27:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 2:27:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 2:27:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 2:27:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 2:27:00 AM |
| Fluorene               | 1.0 | 0.87       | I         | ug/L  | 0.16       | 2.0  | 10/26/2017 2:27:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 2:27:00 AM |
| Naphthalene            | 1.0 | 1.2        | I         | ug/L  | 0.13       | 2.0  | 10/26/2017 2:27:00 AM |
| Phenanthrene           | 1.0 | 0.45       | I         | ug/L  | 0.26       | 2.0  | 10/26/2017 2:27:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 10/26/2017 2:27:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 73.8       |           |       | 31% - 110% |      | 10/26/2017 2:27:00 AM |
| Nitrobenzene-d5        | 1.0 | 77.8       |           |       | 24% - 100% |      | 10/26/2017 2:27:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      77.3      45% - 125%      10/26/2017 2:27:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 1400       |           | ug/L  | 76         | 500 | 10/26/2017 12:57:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| Nonatriacontane(C39)                | 1.0 | 79.7       |           |       | 42% - 193% |     | 10/26/2017 12:57:00 AM |
| Ortho-terphenyl                     | 1.0 | 128        |           |       | 82% - 142% |     | 10/26/2017 12:57:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-5

Laboratory Sample ID: 220616

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 06:22 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-----------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/27/2017 12:06:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/27/2017 12:06:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/27/2017 12:06:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/27/2017 12:06:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/27/2017 12:06:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| 1,2-Dichloroethane-d4 | 1.0 | 99.6       |           |       | 75% - 117% |     | 10/27/2017 12:06:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 103        |           |       | 68% - 118% |     | 10/27/2017 12:06:00 AM |
| Dibromofluoromethane  | 1.0 | 99.8       |           |       | 75% - 113% |     | 10/27/2017 12:06:00 AM |
| Toluene-d8            | 1.0 | 100        |           |       | 76% - 115% |     | 10/27/2017 12:06:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 5:31:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 5:31:00 AM |
| Acenaphthene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 5:31:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 5:31:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 5:31:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 5:31:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 5:31:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 5:31:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 5:31:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 5:31:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 5:31:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 5:31:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 5:31:00 AM |
| Fluorene               | 1.0 | 0.16       | U         | ug/L  | 0.16       | 2.0  | 10/26/2017 5:31:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 5:31:00 AM |
| Naphthalene            | 1.0 | 0.13       | U         | ug/L  | 0.13       | 2.0  | 10/26/2017 5:31:00 AM |
| Phenanthrene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 5:31:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 10/26/2017 5:31:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 82.8       |           |       | 31% - 110% |      | 10/26/2017 5:31:00 AM |
| Nitrobenzene-d5        | 1.0 | 97.9       |           |       | 24% - 100% |      | 10/26/2017 5:31:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      87.6      45% - 125%      10/26/2017 5:31:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 76         | U         | ug/L  | 76         | 500 | 10/26/2017 1:35:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.0 | 95.1       |           |       | 42% - 193% |     | 10/26/2017 1:35:00 AM |
| Ortho-terphenyl                     | 1.0 | 101        |           |       | 82% - 142% |     | 10/26/2017 1:35:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-6

Laboratory Sample ID: 220617

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 07:00 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-----------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/27/2017 12:30:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/27/2017 12:30:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/27/2017 12:30:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/27/2017 12:30:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/27/2017 12:30:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| 1,2-Dichloroethane-d4 | 1.0 | 99.5       |           |       | 75% - 117% |     | 10/27/2017 12:30:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 103        |           |       | 68% - 118% |     | 10/27/2017 12:30:00 AM |
| Dibromofluoromethane  | 1.0 | 97.1       |           |       | 75% - 113% |     | 10/27/2017 12:30:00 AM |
| Toluene-d8            | 1.0 | 100        |           |       | 76% - 115% |     | 10/27/2017 12:30:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 0.25       | I         | ug/L  | 0.21       | 2.0  | 10/26/2017 6:08:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 6:08:00 AM |
| Acenaphthene           | 1.0 | 0.57       | I         | ug/L  | 0.26       | 2.0  | 10/26/2017 6:08:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 6:08:00 AM |
| Anthracene             | 1.0 | 1.5        | I         | ug/L  | 0.19       | 2.0  | 10/26/2017 6:08:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.66       |           | ug/L  | 0.10       | 0.20 | 10/26/2017 6:08:00 AM |
| Benzo(a)pyrene         | 1.0 | 1.5        |           | ug/L  | 0.090      | 0.20 | 10/26/2017 6:08:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 2.7        |           | ug/L  | 0.088      | 0.10 | 10/26/2017 6:08:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 1.2        | I         | ug/L  | 0.34       | 2.0  | 10/26/2017 6:08:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 1.0        |           | ug/L  | 0.083      | 0.20 | 10/26/2017 6:08:00 AM |
| Chrysene               | 1.0 | 2.1        |           | ug/L  | 0.21       | 2.0  | 10/26/2017 6:08:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.25       |           | ug/L  | 0.057      | 0.20 | 10/26/2017 6:08:00 AM |
| Fluoranthene           | 1.0 | 4.8        |           | ug/L  | 0.17       | 2.0  | 10/26/2017 6:08:00 AM |
| Fluorene               | 1.0 | 1.6        | I         | ug/L  | 0.16       | 2.0  | 10/26/2017 6:08:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 1.3        |           | ug/L  | 0.047      | 0.20 | 10/26/2017 6:08:00 AM |
| Naphthalene            | 1.0 | 0.13       | U         | ug/L  | 0.13       | 2.0  | 10/26/2017 6:08:00 AM |
| Phenanthrene           | 1.0 | 1.9        | I         | ug/L  | 0.26       | 2.0  | 10/26/2017 6:08:00 AM |
| Pyrene                 | 1.0 | 4.7        |           | ug/L  | 0.18       | 2.0  | 10/26/2017 6:08:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 86.8       |           |       | 31% - 110% |      | 10/26/2017 6:08:00 AM |
| Nitrobenzene-d5        | 1.0 | 92.2       |           |       | 24% - 100% |      | 10/26/2017 6:08:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      100      45% - 125%      10/26/2017 6:08:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 4500       |           | ug/L  | 76         | 500 | 10/26/2017 2:12:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.0 | 176        |           |       | 42% - 193% |     | 10/26/2017 2:12:00 AM |
| Ortho-terphenyl                     | 1.0 | 111        |           |       | 82% - 142% |     | 10/26/2017 2:12:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-8

Laboratory Sample ID: 220618

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 07:42 PM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date          |
|-----------------------|-----|------------|-----------|-------|------------|-----|------------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/27/2017 12:55:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/27/2017 12:55:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/27/2017 12:55:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/27/2017 12:55:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/27/2017 12:55:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date          |
| 1,2-Dichloroethane-d4 | 1.0 | 100        |           |       | 75% - 117% |     | 10/27/2017 12:55:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 103        |           |       | 68% - 118% |     | 10/27/2017 12:55:00 AM |
| Dibromofluoromethane  | 1.0 | 98.2       |           |       | 75% - 113% |     | 10/27/2017 12:55:00 AM |
| Toluene-d8            | 1.0 | 103        |           |       | 76% - 115% |     | 10/27/2017 12:55:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 6:45:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 6:45:00 AM |
| Acenaphthene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 6:45:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 6:45:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 6:45:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 6:45:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 6:45:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 6:45:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 6:45:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 6:45:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 6:45:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 6:45:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 6:45:00 AM |
| Fluorene               | 1.0 | 0.16       | U         | ug/L  | 0.16       | 2.0  | 10/26/2017 6:45:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 6:45:00 AM |
| Naphthalene            | 1.0 | 0.13       | U         | ug/L  | 0.13       | 2.0  | 10/26/2017 6:45:00 AM |
| Phenanthrene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 6:45:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 10/26/2017 6:45:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 71.8       |           |       | 31% - 110% |      | 10/26/2017 6:45:00 AM |
| Nitrobenzene-d5        | 1.0 | 81.0       |           |       | 24% - 100% |      | 10/26/2017 6:45:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      68.6      45% - 125%      10/26/2017 6:45:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 76         | U         | ug/L  | 76         | 500 | 10/26/2017 2:50:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.0 | 100        |           |       | 42% - 193% |     | 10/26/2017 2:50:00 AM |
| Ortho-terphenyl                     | 1.0 | 103        |           |       | 82% - 142% |     | 10/26/2017 2:50:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-A

Laboratory Sample ID: 220619

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 08:41 AM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Benzene               | 2.0 | 1.0        | U         | ug/L  | 1.0        | 2.0 | 10/27/2017 7:09:00 PM |
| Ethylbenzene          | 2.0 | 0.68       | U         | ug/L  | 0.68       | 2.0 | 10/27/2017 7:09:00 PM |
| Methyl-t-butyl ether  | 2.0 | 0.98       | U         | ug/L  | 0.98       | 2.0 | 10/27/2017 7:09:00 PM |
| Toluene               | 2.0 | 0.82       | U         | ug/L  | 0.82       | 2.0 | 10/27/2017 7:09:00 PM |
| Xylenes- Total        | 2.0 | 2.8        | U         | ug/L  | 2.8        | 6.0 | 10/27/2017 7:09:00 PM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 2.0 | 94.2       |           |       | 75% - 117% |     | 10/27/2017 7:09:00 PM |
| 4-Bromofluorobenzene  | 2.0 | 108        |           |       | 68% - 118% |     | 10/27/2017 7:09:00 PM |
| Dibromofluoromethane  | 2.0 | 95.3       |           |       | 75% - 113% |     | 10/27/2017 7:09:00 PM |
| Toluene-d8            | 2.0 | 102        |           |       | 76% - 115% |     | 10/27/2017 7:09:00 PM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 1.6        | I         | ug/L  | 0.21       | 2.0  | 10/26/2017 7:22:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.42       | I         | ug/L  | 0.21       | 2.0  | 10/26/2017 7:22:00 AM |
| Acenaphthene           | 1.0 | 0.40       | I         | ug/L  | 0.26       | 2.0  | 10/26/2017 7:22:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 7:22:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 7:22:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 7:22:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 7:22:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 7:22:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 7:22:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 7:22:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 7:22:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 7:22:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 7:22:00 AM |
| Fluorene               | 1.0 | 0.28       | I         | ug/L  | 0.16       | 2.0  | 10/26/2017 7:22:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 7:22:00 AM |
| Naphthalene            | 1.0 | 0.33       | I         | ug/L  | 0.13       | 2.0  | 10/26/2017 7:22:00 AM |
| Phenanthrene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 7:22:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 10/26/2017 7:22:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 77.4       |           |       | 31% - 110% |      | 10/26/2017 7:22:00 AM |
| Nitrobenzene-d5        | 1.0 | 84.9       |           |       | 24% - 100% |      | 10/26/2017 7:22:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      87.8      45% - 125%      10/26/2017 7:22:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.1 | 2000       |           | ug/L  | 84         | 550 | 10/26/2017 3:28:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.1 | 163        |           |       | 42% - 193% |     | 10/26/2017 3:28:00 AM |
| Ortho-terphenyl                     | 1.1 | 104        |           |       | 82% - 142% |     | 10/26/2017 3:28:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-9

Laboratory Sample ID: 220620

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 09:17 AM

Percent Moisture:

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/27/2017 1:44:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/27/2017 1:44:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/27/2017 1:44:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/27/2017 1:44:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/27/2017 1:44:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 1.0 | 95.7       |           |       | 75% - 117% |     | 10/27/2017 1:44:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 101        |           |       | 68% - 118% |     | 10/27/2017 1:44:00 AM |
| Dibromofluoromethane  | 1.0 | 97.0       |           |       | 75% - 113% |     | 10/27/2017 1:44:00 AM |
| Toluene-d8            | 1.0 | 98.2       |           |       | 76% - 115% |     | 10/27/2017 1:44:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 7:59:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 7:59:00 AM |
| Acenaphthene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 7:59:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 7:59:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 10/26/2017 7:59:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 10/26/2017 7:59:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 10/26/2017 7:59:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 10/26/2017 7:59:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 10/26/2017 7:59:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 10/26/2017 7:59:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 10/26/2017 7:59:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 10/26/2017 7:59:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 10/26/2017 7:59:00 AM |
| Fluorene               | 1.0 | 0.16       | U         | ug/L  | 0.16       | 2.0  | 10/26/2017 7:59:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 10/26/2017 7:59:00 AM |
| Naphthalene            | 1.0 | 0.13       | U         | ug/L  | 0.13       | 2.0  | 10/26/2017 7:59:00 AM |
| Phenanthrene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 10/26/2017 7:59:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 10/26/2017 7:59:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 77.6       |           |       | 31% - 110% |      | 10/26/2017 7:59:00 AM |
| Nitrobenzene-d5        | 1.0 | 89.2       |           |       | 24% - 100% |      | 10/26/2017 7:59:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

p-Terphenyl-d14      1.0      88.5      45% - 125%      10/26/2017 7:59:00 AM

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 820        |           | ug/L  | 76         | 500 | 10/26/2017 4:06:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.0 | 124        |           |       | 42% - 193% |     | 10/26/2017 4:06:00 AM |
| Ortho-terphenyl                     | 1.0 | 121        |           |       | 82% - 142% |     | 10/26/2017 4:06:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

Client Sample ID: MW-3

Laboratory Sample ID: 220621

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 10:17 AM

Percent Moisture:

Analytical Method: EPA 6010  
ICP  
Total Metals

| Analyte | DF  | Result | Qualifier | Units | MDL | PQL | Analysis Date          |
|---------|-----|--------|-----------|-------|-----|-----|------------------------|
| Lead    | 1.0 | 1.9    | U         | ug/L  | 1.9 | 5.0 | 10/27/2017 12:42:00 PM |

Analytical Method: EPA 8011  
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

| Analyte              | DF  | Result     | Qualifier | Units | MDL    | PQL   | Analysis Date         |
|----------------------|-----|------------|-----------|-------|--------|-------|-----------------------|
| 1,2-Dibromoethane    | 1.0 | 0.0040     | U         | ug/L  | 0.0040 | 0.019 | 10/27/2017 5:20:00 PM |
| Surrogate            | DF  | % Recovery | Qualifier | Units | Limits |       | Analysis Date         |
| 4-Bromofluorobenzene | 1.0 | 104        |           |       | % - %  |       | 10/27/2017 5:20:00 PM |

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| 1,2-Dichloroethane    | 1.0 | 0.90       | U         | ug/L  | 0.90       | 1.0 | 10/27/2017 2:08:00 AM |
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/27/2017 2:08:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/27/2017 2:08:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/27/2017 2:08:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/27/2017 2:08:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/27/2017 2:08:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 1.0 | 97.4       |           |       | 75% - 117% |     | 10/27/2017 2:08:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 102        |           |       | 68% - 118% |     | 10/27/2017 2:08:00 AM |
| Dibromofluoromethane  | 1.0 | 94.7       |           |       | 75% - 113% |     | 10/27/2017 2:08:00 AM |
| Toluene-d8            | 1.0 | 101        |           |       | 76% - 115% |     | 10/27/2017 2:08:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte             | DF  | Result | Qualifier | Units | MDL  | PQL | Analysis Date         |
|---------------------|-----|--------|-----------|-------|------|-----|-----------------------|
| 1-Methylnaphthalene | 1.0 | 0.21   | U         | ug/L  | 0.21 | 2.0 | 10/26/2017 8:35:00 AM |
| 2-Methylnaphthalene | 1.0 | 0.21   | U         | ug/L  | 0.21 | 2.0 | 10/26/2017 8:35:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

## Analytical Data

|                        |           |                   |                  |              |               |      |                       |
|------------------------|-----------|-------------------|------------------|--------------|---------------|------|-----------------------|
| Acenaphthene           | 1.0       | 0.26              | U                | ug/L         | 0.26          | 2.0  | 10/26/2017 8:35:00 AM |
| Acenaphthylene         | 1.0       | 0.19              | U                | ug/L         | 0.19          | 2.0  | 10/26/2017 8:35:00 AM |
| Anthracene             | 1.0       | 0.19              | U                | ug/L         | 0.19          | 2.0  | 10/26/2017 8:35:00 AM |
| Benzo(a)anthracene     | 1.0       | 0.10              | U                | ug/L         | 0.10          | 0.20 | 10/26/2017 8:35:00 AM |
| Benzo(a)pyrene         | 1.0       | 0.090             | U                | ug/L         | 0.090         | 0.20 | 10/26/2017 8:35:00 AM |
| Benzo(b)fluoranthene   | 1.0       | 0.088             | U                | ug/L         | 0.088         | 0.10 | 10/26/2017 8:35:00 AM |
| Benzo(g,h,i)perylene   | 1.0       | 0.34              | U                | ug/L         | 0.34          | 2.0  | 10/26/2017 8:35:00 AM |
| Benzo(k)fluoranthene   | 1.0       | 0.083             | U                | ug/L         | 0.083         | 0.20 | 10/26/2017 8:35:00 AM |
| Chrysene               | 1.0       | 0.21              | U                | ug/L         | 0.21          | 2.0  | 10/26/2017 8:35:00 AM |
| Dibenzo(a,h)anthracene | 1.0       | 0.057             | U                | ug/L         | 0.057         | 0.20 | 10/26/2017 8:35:00 AM |
| Fluoranthene           | 1.0       | 0.17              | U                | ug/L         | 0.17          | 2.0  | 10/26/2017 8:35:00 AM |
| Fluorene               | 1.0       | 0.16              | U                | ug/L         | 0.16          | 2.0  | 10/26/2017 8:35:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0       | 0.047             | U                | ug/L         | 0.047         | 0.20 | 10/26/2017 8:35:00 AM |
| Naphthalene            | 1.0       | 0.13              | U                | ug/L         | 0.13          | 2.0  | 10/26/2017 8:35:00 AM |
| Phenanthrene           | 1.0       | 0.26              | U                | ug/L         | 0.26          | 2.0  | 10/26/2017 8:35:00 AM |
| Pyrene                 | 1.0       | 0.18              | U                | ug/L         | 0.18          | 2.0  | 10/26/2017 8:35:00 AM |
| <b>Surrogate</b>       | <b>DF</b> | <b>% Recovery</b> | <b>Qualifier</b> | <b>Units</b> | <b>Limits</b> |      | <b>Analysis Date</b>  |
| 2-Fluorobiphenyl       | 1.0       | 85.6              |                  |              | 31% - 110%    |      | 10/26/2017 8:35:00 AM |
| Nitrobenzene-d5        | 1.0       | 93.6              |                  |              | 24% - 100%    |      | 10/26/2017 8:35:00 AM |
| p-Terphenyl-d14        | 1.0       | 95.4              |                  |              | 45% - 125%    |      | 10/26/2017 8:35:00 AM |

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF        | Result            | Qualifier        | Units        | MDL           | PQL | Analysis Date         |
|-------------------------------------|-----------|-------------------|------------------|--------------|---------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0       | 76                | U                | ug/L         | 76            | 500 | 10/26/2017 4:44:00 AM |
| <b>Surrogate</b>                    | <b>DF</b> | <b>% Recovery</b> | <b>Qualifier</b> | <b>Units</b> | <b>Limits</b> |     | <b>Analysis Date</b>  |
| Nonatriacontane(C39)                | 1.0       | 95.4              |                  |              | 42% - 193%    |     | 10/26/2017 4:44:00 AM |
| Ortho-terphenyl                     | 1.0       | 107               |                  |              | 82% - 142%    |     | 10/26/2017 4:44:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

Client Sample ID: MW-1

Laboratory Sample ID: 220622

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 11:27 AM

Percent Moisture:

Analytical Method: EPA 6010  
ICP  
Total Metals

| Analyte | DF  | Result | Qualifier | Units | MDL | PQL | Analysis Date          |
|---------|-----|--------|-----------|-------|-----|-----|------------------------|
| Lead    | 1.0 | 1.9    | U         | ug/L  | 1.9 | 5.0 | 10/27/2017 12:44:00 PM |

Analytical Method: EPA 8011  
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

| Analyte              | DF  | Result     | Qualifier | Units | MDL    | PQL   | Analysis Date         |
|----------------------|-----|------------|-----------|-------|--------|-------|-----------------------|
| 1,2-Dibromoethane    | 1.0 | 0.0040     | U         | ug/L  | 0.0040 | 0.020 | 10/27/2017 6:17:00 PM |
| Surrogate            | DF  | % Recovery | Qualifier | Units | Limits |       | Analysis Date         |
| 4-Bromofluorobenzene | 1.0 | 113        |           |       | % - %  |       | 10/27/2017 6:17:00 PM |

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| 1,2-Dichloroethane    | 1.0 | 0.90       | U         | ug/L  | 0.90       | 1.0 | 10/26/2017 1:45:00 AM |
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/26/2017 1:45:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/26/2017 1:45:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/26/2017 1:45:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/26/2017 1:45:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/26/2017 1:45:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 1.0 | 102        |           |       | 75% - 117% |     | 10/26/2017 1:45:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 104        |           |       | 68% - 118% |     | 10/26/2017 1:45:00 AM |
| Dibromofluoromethane  | 1.0 | 99.9       |           |       | 75% - 113% |     | 10/26/2017 1:45:00 AM |
| Toluene-d8            | 1.0 | 104        |           |       | 76% - 115% |     | 10/26/2017 1:45:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte             | DF  | Result | Qualifier | Units | MDL  | PQL | Analysis Date         |
|---------------------|-----|--------|-----------|-------|------|-----|-----------------------|
| 1-Methylnaphthalene | 1.0 | 0.27   | I         | ug/L  | 0.21 | 2.0 | 10/26/2017 9:12:00 AM |
| 2-Methylnaphthalene | 1.0 | 0.21   | U         | ug/L  | 0.21 | 2.0 | 10/26/2017 9:12:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

## Analytical Data

|                        |           |                   |                  |              |               |      |                       |
|------------------------|-----------|-------------------|------------------|--------------|---------------|------|-----------------------|
| Acenaphthene           | 1.0       | 0.26              | U                | ug/L         | 0.26          | 2.0  | 10/26/2017 9:12:00 AM |
| Acenaphthylene         | 1.0       | 0.19              | U                | ug/L         | 0.19          | 2.0  | 10/26/2017 9:12:00 AM |
| Anthracene             | 1.0       | 0.19              | U                | ug/L         | 0.19          | 2.0  | 10/26/2017 9:12:00 AM |
| Benzo(a)anthracene     | 1.0       | 0.10              | U                | ug/L         | 0.10          | 0.20 | 10/26/2017 9:12:00 AM |
| Benzo(a)pyrene         | 1.0       | 0.090             | U                | ug/L         | 0.090         | 0.20 | 10/26/2017 9:12:00 AM |
| Benzo(b)fluoranthene   | 1.0       | 0.088             | U                | ug/L         | 0.088         | 0.10 | 10/26/2017 9:12:00 AM |
| Benzo(g,h,i)perylene   | 1.0       | 0.34              | U                | ug/L         | 0.34          | 2.0  | 10/26/2017 9:12:00 AM |
| Benzo(k)fluoranthene   | 1.0       | 0.083             | U                | ug/L         | 0.083         | 0.20 | 10/26/2017 9:12:00 AM |
| Chrysene               | 1.0       | 0.21              | U                | ug/L         | 0.21          | 2.0  | 10/26/2017 9:12:00 AM |
| Dibenzo(a,h)anthracene | 1.0       | 0.057             | U                | ug/L         | 0.057         | 0.20 | 10/26/2017 9:12:00 AM |
| Fluoranthene           | 1.0       | 0.17              | U                | ug/L         | 0.17          | 2.0  | 10/26/2017 9:12:00 AM |
| Fluorene               | 1.0       | 0.16              | U                | ug/L         | 0.16          | 2.0  | 10/26/2017 9:12:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0       | 0.047             | U                | ug/L         | 0.047         | 0.20 | 10/26/2017 9:12:00 AM |
| <b>Naphthalene</b>     | 1.0       | <b>0.18</b>       | I                | ug/L         | 0.13          | 2.0  | 10/26/2017 9:12:00 AM |
| Phenanthrene           | 1.0       | 0.26              | U                | ug/L         | 0.26          | 2.0  | 10/26/2017 9:12:00 AM |
| Pyrene                 | 1.0       | 0.18              | U                | ug/L         | 0.18          | 2.0  | 10/26/2017 9:12:00 AM |
| <b>Surrogate</b>       | <b>DF</b> | <b>% Recovery</b> | <b>Qualifier</b> | <b>Units</b> | <b>Limits</b> |      | <b>Analysis Date</b>  |
| 2-Fluorobiphenyl       | 1.0       | 79.8              |                  |              | 31% - 110%    |      | 10/26/2017 9:12:00 AM |
| Nitrobenzene-d5        | 1.0       | 90.0              |                  |              | 24% - 100%    |      | 10/26/2017 9:12:00 AM |
| p-Terphenyl-d14        | 1.0       | 97.6              |                  |              | 45% - 125%    |      | 10/26/2017 9:12:00 AM |

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF        | Result            | Qualifier        | Units        | MDL           | PQL | Analysis Date         |
|-------------------------------------|-----------|-------------------|------------------|--------------|---------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.1       | 770               |                  | ug/L         | 84            | 550 | 10/26/2017 5:59:00 AM |
| <b>Surrogate</b>                    | <b>DF</b> | <b>% Recovery</b> | <b>Qualifier</b> | <b>Units</b> | <b>Limits</b> |     | <b>Analysis Date</b>  |
| Nonatriacontane(C39)                | 1.1       | 74.7              |                  |              | 42% - 193%    |     | 10/26/2017 5:59:00 AM |
| Ortho-terphenyl                     | 1.1       | 107               |                  |              | 82% - 142%    |     | 10/26/2017 5:59:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



# Analytical Data

Client Sample ID: MW-7

Laboratory Sample ID: 220623

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 12:32 PM

Percent Moisture:

Analytical Method: EPA 6010  
ICP  
Total Metals

| Analyte | DF  | Result | Qualifier | Units | MDL | PQL | Analysis Date          |
|---------|-----|--------|-----------|-------|-----|-----|------------------------|
| Lead    | 1.0 | 1.9    | U         | ug/L  | 1.9 | 5.0 | 10/27/2017 12:47:00 PM |

Analytical Method: EPA 8011  
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

| Analyte              | DF  | Result     | Qualifier | Units | MDL    | PQL   | Analysis Date         |
|----------------------|-----|------------|-----------|-------|--------|-------|-----------------------|
| 1,2-Dibromoethane    | 1.0 | 0.0040     | U         | ug/L  | 0.0040 | 0.019 | 10/27/2017 7:14:00 PM |
| Surrogate            | DF  | % Recovery | Qualifier | Units | Limits |       | Analysis Date         |
| 4-Bromofluorobenzene | 1.0 | 114        |           |       | % - %  |       | 10/27/2017 7:14:00 PM |

Analytical Method: EPA 8260  
GC/MS

| Analyte               | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-----------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| 1,2-Dichloroethane    | 1.0 | 0.90       | U         | ug/L  | 0.90       | 1.0 | 10/27/2017 2:33:00 AM |
| Benzene               | 1.0 | 0.52       | U         | ug/L  | 0.52       | 1.0 | 10/27/2017 2:33:00 AM |
| Ethylbenzene          | 1.0 | 0.34       | U         | ug/L  | 0.34       | 1.0 | 10/27/2017 2:33:00 AM |
| Methyl-t-butyl ether  | 1.0 | 0.49       | U         | ug/L  | 0.49       | 1.0 | 10/27/2017 2:33:00 AM |
| Toluene               | 1.0 | 0.41       | U         | ug/L  | 0.41       | 1.0 | 10/27/2017 2:33:00 AM |
| Xylenes- Total        | 1.0 | 1.4        | U         | ug/L  | 1.4        | 3.0 | 10/27/2017 2:33:00 AM |
| Surrogate             | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| 1,2-Dichloroethane-d4 | 1.0 | 94.9       |           |       | 75% - 117% |     | 10/27/2017 2:33:00 AM |
| 4-Bromofluorobenzene  | 1.0 | 102        |           |       | 68% - 118% |     | 10/27/2017 2:33:00 AM |
| Dibromofluoromethane  | 1.0 | 95.6       |           |       | 75% - 113% |     | 10/27/2017 2:33:00 AM |
| Toluene-d8            | 1.0 | 102        |           |       | 76% - 115% |     | 10/27/2017 2:33:00 AM |

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte             | DF  | Result | Qualifier | Units | MDL  | PQL | Analysis Date         |
|---------------------|-----|--------|-----------|-------|------|-----|-----------------------|
| 1-Methylnaphthalene | 1.0 | 0.21   | U         | ug/L  | 0.21 | 2.0 | 10/26/2017 9:48:00 AM |
| 2-Methylnaphthalene | 1.0 | 0.21   | U         | ug/L  | 0.21 | 2.0 | 10/26/2017 9:48:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

## Analytical Data

|                        |           |                   |                  |              |               |      |                       |
|------------------------|-----------|-------------------|------------------|--------------|---------------|------|-----------------------|
| Acenaphthene           | 1.0       | 0.26              | U                | ug/L         | 0.26          | 2.0  | 10/26/2017 9:48:00 AM |
| Acenaphthylene         | 1.0       | 0.19              | U                | ug/L         | 0.19          | 2.0  | 10/26/2017 9:48:00 AM |
| Anthracene             | 1.0       | 0.19              | U                | ug/L         | 0.19          | 2.0  | 10/26/2017 9:48:00 AM |
| Benzo(a)anthracene     | 1.0       | 0.10              | U                | ug/L         | 0.10          | 0.20 | 10/26/2017 9:48:00 AM |
| Benzo(a)pyrene         | 1.0       | 0.090             | U                | ug/L         | 0.090         | 0.20 | 10/26/2017 9:48:00 AM |
| Benzo(b)fluoranthene   | 1.0       | 0.088             | U                | ug/L         | 0.088         | 0.10 | 10/26/2017 9:48:00 AM |
| Benzo(g,h,i)perylene   | 1.0       | 0.34              | U                | ug/L         | 0.34          | 2.0  | 10/26/2017 9:48:00 AM |
| Benzo(k)fluoranthene   | 1.0       | 0.083             | U                | ug/L         | 0.083         | 0.20 | 10/26/2017 9:48:00 AM |
| Chrysene               | 1.0       | 0.21              | U                | ug/L         | 0.21          | 2.0  | 10/26/2017 9:48:00 AM |
| Dibenzo(a,h)anthracene | 1.0       | 0.057             | U                | ug/L         | 0.057         | 0.20 | 10/26/2017 9:48:00 AM |
| Fluoranthene           | 1.0       | 0.17              | U                | ug/L         | 0.17          | 2.0  | 10/26/2017 9:48:00 AM |
| Fluorene               | 1.0       | 0.16              | U                | ug/L         | 0.16          | 2.0  | 10/26/2017 9:48:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0       | 0.047             | U                | ug/L         | 0.047         | 0.20 | 10/26/2017 9:48:00 AM |
| Naphthalene            | 1.0       | 0.13              | U                | ug/L         | 0.13          | 2.0  | 10/26/2017 9:48:00 AM |
| Phenanthrene           | 1.0       | 0.26              | U                | ug/L         | 0.26          | 2.0  | 10/26/2017 9:48:00 AM |
| Pyrene                 | 1.0       | 0.18              | U                | ug/L         | 0.18          | 2.0  | 10/26/2017 9:48:00 AM |
| <b>Surrogate</b>       | <b>DF</b> | <b>% Recovery</b> | <b>Qualifier</b> | <b>Units</b> | <b>Limits</b> |      | <b>Analysis Date</b>  |
| 2-Fluorobiphenyl       | 1.0       | 83.1              |                  |              | 31% - 110%    |      | 10/26/2017 9:48:00 AM |
| Nitrobenzene-d5        | 1.0       | 89.8              |                  |              | 24% - 100%    |      | 10/26/2017 9:48:00 AM |
| p-Terphenyl-d14        | 1.0       | 72.2              |                  |              | 45% - 125%    |      | 10/26/2017 9:48:00 AM |

Analytical Method: **FDEP FL-PRO**  
**GC/FID**

| Analyte                             | DF        | Result            | Qualifier        | Units        | MDL           | PQL | Analysis Date         |
|-------------------------------------|-----------|-------------------|------------------|--------------|---------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0       | 76                | U                | ug/L         | 76            | 500 | 10/26/2017 6:38:00 AM |
| <b>Surrogate</b>                    | <b>DF</b> | <b>% Recovery</b> | <b>Qualifier</b> | <b>Units</b> | <b>Limits</b> |     | <b>Analysis Date</b>  |
| Nonatriacontane(C39)                | 1.0       | 75.9              |                  |              | 42% - 193%    |     | 10/26/2017 6:38:00 AM |
| Ortho-terphenyl                     | 1.0       | 104               |                  |              | 82% - 142%    |     | 10/26/2017 6:38:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



## Data Chronicle

Client Sample ID: MW-10

Sample Location:

Date Collected: 10/17/2017 12:38 PM

Laboratory Sample ID: 220610

Matrix: AQUEOUS-Groundwater

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/26/2017 2:34:00 AM  | 10/26/2017 2:34:00 AM  | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/25/2017 11:24:00 PM | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/25/2017 9:12:00 PM  | BW      | E87684 |

Client Sample ID: MW-11

Sample Location:

Date Collected: 10/17/2017 01:37 PM

Laboratory Sample ID: 220611

Matrix: AQUEOUS-Groundwater

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed              | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|-----------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/26/2017 2:59:00 AM  | 10/26/2017 2:59:00 AM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017            | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/25/2017 9:50:00 PM | BW      | E87684 |

Client Sample ID: MW-12

Sample Location:

Date Collected: 10/17/2017 02:41 PM

Laboratory Sample ID: 220612

Matrix: AQUEOUS-Groundwater

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 2.0      | LMSVA102517 | 10/26/2017 8:24:00 PM  | 10/26/2017 8:24:00 PM  | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 12:37:00 AM | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/25/2017 11:05:00 PM | BW      | E87684 |

Client Sample ID: MW-2

Sample Location:

Date Collected: 10/17/2017 03:48 PM

Laboratory Sample ID: 220613

Matrix: AQUEOUS-Groundwater

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/26/2017 10:52:00 PM | 10/26/2017 10:52:00 PM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 1:14:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/25/2017 11:42:00 PM | BW      | E87684 |

Client Sample ID: MW-4

Sample Location:

Date Collected: 10/17/2017 05:12 PM

Laboratory Sample ID: 220614

Matrix: AQUEOUS-Groundwater

Percent Moisture:

| Prep | Analysis | Analytical Method | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|-------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260          | 1.0      | LMSVA102517 | 10/26/2017 11:16:00 PM | 10/26/2017 11:16:00 PM | MTA     | E87684 |



## Data Chronicle

Client Sample ID: MW-4

Laboratory Sample ID: 220614

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 05:12 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 1:50:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 12:19:00 AM | BW      | E87684 |

Client Sample ID: MW-13

Laboratory Sample ID: 220615

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 05:45 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/26/2017 11:41:00 PM | 10/26/2017 11:41:00 PM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 2:27:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 12:57:00 AM | BW      | E87684 |

Client Sample ID: MW-5

Laboratory Sample ID: 220616

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 06:22 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/27/2017 12:06:00 AM | 10/27/2017 12:06:00 AM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 5:31:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 1:35:00 AM  | BW      | E87684 |

Client Sample ID: MW-6

Laboratory Sample ID: 220617

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 07:00 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/27/2017 12:30:00 AM | 10/27/2017 12:30:00 AM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 6:08:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 2:12:00 AM  | BW      | E87684 |

Client Sample ID: MW-8

Laboratory Sample ID: 220618

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 07:42 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/27/2017 12:55:00 AM | 10/27/2017 12:55:00 AM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 6:45:00 AM  | BW      | E87684 |



## Data Chronicle

Client Sample ID: MW-8

Laboratory Sample ID: 220618

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/17/2017 07:42 PM

Percent Moisture:

| Prep | Analysis | Analytical Method | Dilution | Batch       | Prepared               | Analyzed              | Analyst | Lab    |
|------|----------|-------------------|----------|-------------|------------------------|-----------------------|---------|--------|
| TOT  | RES      | FDEP FL-PRO       | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 2:50:00 AM | BW      | E87684 |

Client Sample ID: MW-A

Laboratory Sample ID: 220619

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 08:41 AM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed              | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|-----------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 2.0      | LMSVA102517 | 10/27/2017 7:09:00 PM  | 10/27/2017 7:09:00 PM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 7:22:00 AM | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.1      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 3:28:00 AM | BW      | E87684 |

Client Sample ID: MW-9

Laboratory Sample ID: 220620

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 09:17 AM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed              | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|-----------------------|---------|--------|
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/27/2017 1:44:00 AM  | 10/27/2017 1:44:00 AM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 7:59:00 AM | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 4:06:00 AM | BW      | E87684 |

Client Sample ID: MW-3

Laboratory Sample ID: 220621

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 10:17 AM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 6010               | 1.0      | WTMA102617  | 10/27/2017 9:26:00 AM  | 10/27/2017 12:42:00 PM | BW      | E87684 |
| TOT  | RES      | EPA 8011               | 1.0      | 250582      | 10/27/2017 11:29:00 AM | 10/27/2017 5:20:00 PM  | E87582  | E87582 |
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/27/2017 2:08:00 AM  | 10/27/2017 2:08:00 AM  | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 8:35:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 4:44:00 AM  | BW      | E87684 |

Client Sample ID: MW-1

Laboratory Sample ID: 220622

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 11:27 AM

Percent Moisture:

| Prep | Analysis | Analytical Method | Dilution | Batch      | Prepared              | Analyzed               | Analyst | Lab    |
|------|----------|-------------------|----------|------------|-----------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 6010          | 1.0      | WTMA102617 | 10/27/2017 9:26:00 AM | 10/27/2017 12:44:00 PM | BW      | E87684 |



## Data Chronicle

Client Sample ID: MW-1

Laboratory Sample ID: 220622

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 11:27 AM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed              | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|-----------------------|---------|--------|
| TOT  | RES      | EPA 8011               | 1.0      | 250582      | 10/27/2017 11:29:00 AM | 10/27/2017 6:17:00 PM | E87582  | E87582 |
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/26/2017 1:45:00 AM  | 10/26/2017 1:45:00 AM | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 9:12:00 AM | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.1      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 5:59:00 AM | BW      | E87684 |

Client Sample ID: MW-7

Laboratory Sample ID: 220623

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/18/2017 12:32 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared               | Analyzed               | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|------------------------|------------------------|---------|--------|
| TOT  | RES      | EPA 6010               | 1.0      | WTMA102617  | 10/27/2017 9:26:00 AM  | 10/27/2017 12:47:00 PM | BW      | E87684 |
| TOT  | RES      | EPA 8011               | 1.0      | 250582      | 10/27/2017 11:29:00 AM | 10/27/2017 7:14:00 PM  | E87582  | E87582 |
| TOT  | RES      | EPA 8260               | 1.0      | LMSVA102517 | 10/27/2017 2:33:00 AM  | 10/27/2017 2:33:00 AM  | MTA     | E87684 |
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 9:48:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA102417 | 10/24/2017 12:35:00 PM | 10/26/2017 6:38:00 AM  | BW      | E87684 |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: 250582

Analysis Method: EPA 8011

Preparation Type: 8011

Method Batch ID: 250582

Preparation Date: 10/27/2017 11:29:00 AM

| Analyte              | MDL    | PQL   | Result                    | Qual | Units | Spike Amount                 | % REC | % REC Low Limit | % REC High Limit                     | %RPD | % RPD Limit |
|----------------------|--------|-------|---------------------------|------|-------|------------------------------|-------|-----------------|--------------------------------------|------|-------------|
| QA/QC Type: MB       |        |       | Lab Sample ID: 250582MB   |      |       | Client Sample ID: 250582MB   |       |                 | Date Analyzed: 10/27/2017 2:27:00 PM |      |             |
| 4-Bromofluorobenzene |        |       | 5.6                       |      | ug/L  | 5.00                         | 112   | -               |                                      |      |             |
| 1,2-Dibromoethane    | 0.0040 | 0.020 | 0.0040                    | U    | ug/L  |                              |       |                 |                                      |      |             |
| QA/QC Type: LCS      |        |       | Lab Sample ID: 250582LCS  |      |       | Client Sample ID: 250582LCS  |       |                 | Date Analyzed: 10/27/2017 2:56:00 PM |      |             |
| 4-Bromofluorobenzene |        |       | 5.67                      |      | ug/L  | 5.00                         | 113   | 70.0            | - 137                                |      |             |
| 1,2-Dibromoethane    | 0.0040 | 0.020 | 0.110                     |      | ug/L  | 0.100                        | 110   | 30.0            | - 170                                |      |             |
| QA/QC Type: LCSD     |        |       | Lab Sample ID: 250582LCSD |      |       | Client Sample ID: 250582LCSD |       |                 | Date Analyzed: 10/27/2017 3:25:00 PM |      |             |
| 4-Bromofluorobenzene |        |       | 5.60                      |      | ug/L  | 5.00                         | 112   | 70.0            | - 137                                |      |             |
| 1,2-Dibromoethane    | 0.0040 | 0.020 | 0.111                     |      | ug/L  | 0.100                        | 111   | 30.0            | - 170                                | 0.90 | 50          |
| QA/QC Type: MS       |        |       | Lab Sample ID: 250582MS   |      |       | Client Sample ID: 220621MS   |       |                 | Date Analyzed: 10/27/2017 5:49:00 PM |      |             |
| 1,2-Dibromoethane    | 0.0040 | 0.020 | 0.101                     |      | ug/L  | 0.097                        | 104   | 60.0            | - 140                                |      |             |
| 4-Bromofluorobenzene |        |       | 5.29                      |      | ug/L  | 4.87                         | 109   | 70.0            | - 137                                |      |             |

### Comments:

Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte              | MDL  | PQL | Result                       | Qual | Units | Spike Amount                    | % REC | % REC Low Limit | % REC High Limit                     | %RPD | % RPD Limit |
|----------------------|------|-----|------------------------------|------|-------|---------------------------------|-------|-----------------|--------------------------------------|------|-------------|
| QA/QC Type: MB       |      |     | Lab Sample ID: LMSVA102517MB |      |       | Client Sample ID: LMSVA102517MB |       |                 | Date Analyzed: 10/25/2017 9:39:00 PM |      |             |
| Acetone              | 6.2  | 25  | 6.2                          | U    | ug/L  |                                 |       |                 |                                      |      |             |
| Benzene              | 0.52 | 1.0 | 0.52                         | U    | ug/L  |                                 |       |                 |                                      |      |             |
| Bromobenzene         | 0.57 | 1.0 | 0.57                         | U    | ug/L  |                                 |       |                 |                                      |      |             |
| Bromochloromethane   | 0.42 | 1.0 | 0.42                         | U    | ug/L  |                                 |       |                 |                                      |      |             |
| Bromodichloromethane | 0.64 | 1.0 | 0.64                         | U    | ug/L  |                                 |       |                 |                                      |      |             |
| Bromoform            | 0.40 | 5.0 | 0.40                         | U    | ug/L  |                                 |       |                 |                                      |      |             |
| Bromomethane         | 1.8  | 5.0 | 1.8                          | U    | ug/L  |                                 |       |                 |                                      |      |             |
| 2-Butanone           | 5.8  | 25  | 5.8                          | U    | ug/L  |                                 |       |                 |                                      |      |             |
| n-Butylbenzene       | 0.44 | 1.0 | 0.44                         | U    | ug/L  |                                 |       |                 |                                      |      |             |
| sec-Butylbenzene     | 0.38 | 1.0 | 0.38                         | U    | ug/L  |                                 |       |                 |                                      |      |             |
| t-Butylbenzene       | 0.44 | 1.0 | 0.44                         | U    | ug/L  |                                 |       |                 |                                      |      |             |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte                     | MDL  | PQL | Result | Qual                         | Units | Spike Amount | % REC | % REC Low Limit                 | - | % REC High Limit | %RPD | % RPD Limit                          |  |
|-----------------------------|------|-----|--------|------------------------------|-------|--------------|-------|---------------------------------|---|------------------|------|--------------------------------------|--|
| QA/QC Type: MB              |      |     |        | Lab Sample ID: LMSVA102517MB |       |              |       | Client Sample ID: LMSVA102517MB |   |                  |      | Date Analyzed: 10/25/2017 9:39:00 PM |  |
| Carbon tetrachloride        | 0.52 | 5.0 | 0.52   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Chlorobenzene               | 0.73 | 1.0 | 0.73   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Chloroethane                | 0.75 | 5.0 | 0.75   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Chloroform                  | 0.35 | 1.0 | 0.35   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Chloromethane               | 0.84 | 5.0 | 0.84   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 2-Chlorotoluene             | 0.43 | 1.0 | 0.43   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 4-Chlorotoluene             | 0.45 | 1.0 | 0.45   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,2-Dibromo-3-chloropropane | 0.32 | 5.0 | 0.32   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Dibromochloromethane        | 0.60 | 1.0 | 0.60   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,2-Dibromoethane           | 0.66 | 1.0 | 0.66   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Dibromomethane              | 0.64 | 1.0 | 0.64   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,2-Dichlorobenzene         | 0.41 | 1.0 | 0.41   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,3-Dichlorobenzene         | 0.27 | 1.0 | 0.27   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,4-Dichlorobenzene         | 0.54 | 1.0 | 0.54   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Dichlorodifluoromethane     | 0.80 | 5.0 | 0.80   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,1-Dichloroethane          | 0.47 | 1.0 | 0.47   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,2-Dichloroethane          | 0.90 | 1.0 | 0.90   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,1-Dichloroethene          | 0.54 | 1.0 | 0.54   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| cis-1,2-Dichloroethene      | 0.64 | 1.0 | 0.64   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| trans-1,2-Dichloroethene    | 0.69 | 1.0 | 0.69   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,2-Dichloropropane         | 0.36 | 1.0 | 0.36   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,3-Dichloropropane         | 0.58 | 1.0 | 0.58   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 2,2-Dichloropropane         | 0.49 | 1.0 | 0.49   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,1-Dichloropropene         | 0.49 | 1.0 | 0.49   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Isopropylbenzene            | 0.50 | 1.0 | 0.50   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Ethylbenzene                | 0.34 | 1.0 | 0.34   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Styrene                     | 0.51 | 1.0 | 0.51   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Hexachlorobutadiene         | 0.78 | 5.0 | 0.78   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Isopropylether              | 0.46 | 1.0 | 0.46   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 4-Isopropyltoluene          | 0.53 | 1.0 | 0.53   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Methylene chloride          | 1.1  | 5.0 | 1.1    | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Methyl-t-butyl ether        | 0.49 | 1.0 | 0.49   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Naphthalene                 | 0.56 | 5.0 | 0.56   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| n-Propylbenzene             | 0.52 | 1.0 | 0.52   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| 1,1,1,2-Tetrachloroethane   | 0.57 | 1.0 | 0.57   | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte   | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|---|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: MB      Lab Sample ID: LMSVA102517MB      Client Sample ID: LMSVA102517MB      Date Analyzed: 10/25/2017 9:39:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |
| 1,1,2,2-Tetrachloroethane   | 0.41 | 1.0 | 0.41   | U    | ug/L  |              |       |                 |                  |      |             |
| Tetrachloroethene   | 0.82 | 1.0 | 0.82   | U    | ug/L  |              |       |                 |                  |      |             |
| Toluene   | 0.41 | 1.0 | 0.41   | U    | ug/L  |              |       |                 |                  |      |             |
| 1,2,3-Trichlorobenzene  | 1.5  | 5.0 | 1.5    | U    | ug/L  |              |       |                 |                  |      |             |
| 1,2,4-Trichlorobenzene  | 0.32 | 5.0 | 0.32   | U    | ug/L  |              |       |                 |                  |      |             |
| 1,1,1-Trichloroethane   | 0.43 | 1.0 | 0.43   | U    | ug/L  |              |       |                 |                  |      |             |
| 1,1,2-Trichloroethane   | 0.37 | 1.0 | 0.37   | U    | ug/L  |              |       |                 |                  |      |             |
| Trichloroethene   | 0.54 | 1.0 | 0.54   | U    | ug/L  |              |       |                 |                  |      |             |
| Trichlorofluoromethane  | 1.0  | 5.0 | 1.0    | U    | ug/L  |              |       |                 |                  |      |             |
| 1,2,3-Trichloropropane  | 0.71 | 5.0 | 0.71   | U    | ug/L  |              |       |                 |                  |      |             |
| 1,2,4-Trimethylbenzene  | 0.82 | 1.0 | 0.82   | U    | ug/L  |              |       |                 |                  |      |             |
| 1,3,5-Trimethylbenzene  | 0.53 | 1.0 | 0.53   | U    | ug/L  |              |       |                 |                  |      |             |
| Vinyl chloride  | 0.74 | 1.0 | 0.74   | U    | ug/L  |              |       |                 |                  |      |             |
| Xylenes- Total  | 1.4  | 3.0 | 1.4    | U    | ug/L  |              |       |                 |                  |      |             |
| Toluene-d8  |      |     | 50.9   |      | ug/L  | 50.0         | 102   | 76.0            | -                | 115  |             |
| 4-Bromofluorobenzene  |      |     | 53.7   |      | ug/L  | 50.0         | 107   | 68.0            | -                | 118  |             |
| Dibromofluoromethane  |      |     | 49.7   |      | ug/L  | 50.0         | 99.4  | 75.0            | -                | 113  |             |
| 1,2-Dichloroethane-d4   |      |     | 52.0   |      | ug/L  | 50.0         | 104   | 75.0            | -                | 117  |             |

| Analyte  | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|--|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: LCS      Lab Sample ID: LMSVA102517LCS      Client Sample ID: LMSVA102517LCS      Date Analyzed: 10/25/2017 8:01:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |
| Acetone  | 6.2  | 25  | 97.4   |      | ug/L  | 100          | 97.4  | 51.0            | -                | 192  |             |
| Benzene  | 0.52 | 1.0 | 48.4   |      | ug/L  | 50.0         | 96.8  | 86.0            | -                | 121  |             |
| Bromobenzene   | 0.57 | 1.0 | 47.0   |      | ug/L  | 50.0         | 94.0  | 87.0            | -                | 121  |             |
| Bromochloromethane   | 0.42 | 1.0 | 51.4   |      | ug/L  | 50.0         | 103   | 85.0            | -                | 129  |             |
| Bromodichloromethane   | 0.64 | 1.0 | 47.8   |      | ug/L  | 50.0         | 95.6  | 85.0            | -                | 128  |             |
| Bromoform  | 0.40 | 5.0 | 50.9   |      | ug/L  | 50.0         | 102   | 82.0            | -                | 130  |             |
| Bromomethane   | 1.8  | 5.0 | 48.4   |      | ug/L  | 50.0         | 96.8  | 34.0            | -                | 144  |             |
| 2-Butanone   | 5.8  | 25  | 129    |      | ug/L  | 100          | 129   | 71.0            | -                | 148  |             |
| n-Butylbenzene   | 0.44 | 1.0 | 50.8   |      | ug/L  | 50.0         | 102   | 71.0            | -                | 120  |             |
| sec-Butylbenzene   | 0.38 | 1.0 | 51.4   |      | ug/L  | 50.0         | 103   | 75.0            | -                | 120  |             |
| t-Butylbenzene   | 0.44 | 1.0 | 50.5   |      | ug/L  | 50.0         | 101   | 77.0            | -                | 124  |             |
| Carbon tetrachloride   | 0.52 | 5.0 | 50.6   |      | ug/L  | 50.0         | 101   | 74.0            | -                | 137  |             |
| Chlorobenzene  | 0.73 | 1.0 | 47.8   |      | ug/L  | 50.0         | 95.6  | 88.0            | -                | 118  |             |
| Chloroethane   | 0.75 | 5.0 | 53.2   |      | ug/L  | 50.0         | 106   | 62.0            | -                | 133  |             |
| Chloroform   | 0.35 | 1.0 | 50.4   |      | ug/L  | 50.0         | 101   | 83.0            | -                | 124  |             |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte  | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|--|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: LCS      Lab Sample ID: LMSVA102517LCS      Client Sample ID: LMSVA102517LCS      Date Analyzed: 10/25/2017 8:01:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |
| Chloromethane  | 0.84 | 5.0 | 45.2   |      | ug/L  | 50.0         | 90.4  | 35.0            | -                | 131  |             |
| 2-Chlorotoluene  | 0.43 | 1.0 | 48.8   |      | ug/L  | 50.0         | 97.6  | 84.0            | -                | 121  |             |
| 4-Chlorotoluene  | 0.45 | 1.0 | 49.2   |      | ug/L  | 50.0         | 98.4  | 82.0            | -                | 120  |             |
| 1,2-Dibromo-3-chloropropane  | 0.32 | 5.0 | 50.8   |      | ug/L  | 50.0         | 102   | 65.0            | -                | 129  |             |
| Dibromochloromethane   | 0.60 | 1.0 | 52.8   |      | ug/L  | 50.0         | 106   | 87.0            | -                | 125  |             |
| 1,2-Dibromoethane  | 0.66 | 1.0 | 50.4   |      | ug/L  | 50.0         | 101   | 90.0            | -                | 122  |             |
| Dibromomethane   | 0.64 | 1.0 | 48.5   |      | ug/L  | 50.0         | 97.0  | 85.0            | -                | 120  |             |
| 1,2-Dichlorobenzene  | 0.41 | 1.0 | 48.4   |      | ug/L  | 50.0         | 96.8  | 85.0            | -                | 119  |             |
| 1,3-Dichlorobenzene  | 0.27 | 1.0 | 47.2   |      | ug/L  | 50.0         | 94.4  | 84.0            | -                | 120  |             |
| 1,4-Dichlorobenzene  | 0.54 | 1.0 | 47.3   |      | ug/L  | 50.0         | 94.6  | 83.0            | -                | 117  |             |
| Dichlorodifluoromethane  | 0.80 | 5.0 | 42.4   |      | ug/L  | 50.0         | 84.8  | 29.0            | -                | 128  |             |
| 1,1-Dichloroethane   | 0.47 | 1.0 | 49.1   |      | ug/L  | 50.0         | 98.2  | 74.0            | -                | 121  |             |
| 1,2-Dichloroethane   | 0.90 | 1.0 | 48.4   |      | ug/L  | 50.0         | 96.8  | 82.0            | -                | 126  |             |
| 1,1-Dichloroethene   | 0.54 | 1.0 | 47.1   |      | ug/L  | 50.0         | 94.2  | 69.0            | -                | 109  |             |
| cis-1,2-Dichloroethene   | 0.64 | 1.0 | 48.5   |      | ug/L  | 50.0         | 97.0  | 83.0            | -                | 123  |             |
| trans-1,2-Dichloroethene   | 0.69 | 1.0 | 49.9   |      | ug/L  | 50.0         | 99.8  | 79.0            | -                | 119  |             |
| 1,2-Dichloropropane  | 0.36 | 1.0 | 46.9   |      | ug/L  | 50.0         | 93.8  | 82.0            | -                | 123  |             |
| 1,3-Dichloropropane  | 0.58 | 1.0 | 51.0   |      | ug/L  | 50.0         | 102   | 90.0            | -                | 120  |             |
| 2,2-Dichloropropane  | 0.49 | 1.0 | 48.3   |      | ug/L  | 50.0         | 96.6  | 76.0            | -                | 128  |             |
| 1,1-Dichloropropene  | 0.49 | 1.0 | 50.0   |      | ug/L  | 50.0         | 100   | 78.0            | -                | 139  |             |
| Isopropylbenzene   | 0.50 | 1.0 | 51.8   |      | ug/L  | 50.0         | 104   | 78.0            | -                | 122  |             |
| Ethylbenzene   | 0.34 | 1.0 | 51.5   |      | ug/L  | 50.0         | 103   | 84.0            | -                | 125  |             |
| Hexachlorobutadiene  | 0.78 | 5.0 | 47.0   |      | ug/L  | 50.0         | 94.0  | 60.0            | -                | 125  |             |
| Styrene  | 0.51 | 1.0 | 49.6   |      | ug/L  | 50.0         | 99.2  | 79.0            | -                | 125  |             |
| Isopropylether   | 0.46 | 1.0 | 102    |      | ug/L  | 100          | 102   | 64.0            | -                | 138  |             |
| 4-Isopropyltoluene   | 0.53 | 1.0 | 52.6   |      | ug/L  | 50.0         | 105   | 74.0            | -                | 118  |             |
| Methylene chloride   | 1.1  | 5.0 | 48.7   |      | ug/L  | 50.0         | 97.4  | 69.0            | -                | 121  |             |
| Methyl-t-butyl ether   | 0.49 | 1.0 | 53.6   |      | ug/L  | 50.0         | 107   | 82.0            | -                | 129  |             |
| Naphthalene  | 0.56 | 5.0 | 46.7   |      | ug/L  | 50.0         | 93.4  | 64.0            | -                | 130  |             |
| n-Propylbenzene  | 0.52 | 1.0 | 51.8   |      | ug/L  | 50.0         | 104   | 79.0            | -                | 125  |             |
| 1,1,1,2-Tetrachloroethane  | 0.57 | 1.0 | 51.1   |      | ug/L  | 50.0         | 102   | 83.0            | -                | 137  |             |
| 1,1,1,2,2-Tetrachloroethane  | 0.41 | 1.0 | 49.5   |      | ug/L  | 50.0         | 99.0  | 79.0            | -                | 128  |             |
| Tetrachloroethene  | 0.82 | 1.0 | 48.0   |      | ug/L  | 50.0         | 96.0  | 62.0            | -                | 144  |             |
| Toluene  | 0.41 | 1.0 | 47.8   |      | ug/L  | 50.0         | 95.6  | 87.0            | -                | 119  |             |
| 1,2,3-Trichlorobenzene   | 1.5  | 5.0 | 43.1   |      | ug/L  | 50.0         | 86.2  | 43.0            | -                | 151  |             |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte  | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|--|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: LCS      Lab Sample ID: LMSVA102517LCS      Client Sample ID: LMSVA102517LCS      Date Analyzed: 10/25/2017 8:01:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |
| 1,2,4-Trichlorobenzene   | 0.32 | 5.0 | 45.8   |      | ug/L  | 50.0         | 91.6  | 73.0            | -                | 118  |             |
| 1,1,1-Trichloroethane  | 0.43 | 1.0 | 50.6   |      | ug/L  | 50.0         | 101   | 81.0            | -                | 131  |             |
| 1,1,2-Trichloroethane  | 0.37 | 1.0 | 51.6   |      | ug/L  | 50.0         | 103   | 87.0            | -                | 121  |             |
| Trichloroethene  | 0.54 | 1.0 | 47.7   |      | ug/L  | 50.0         | 95.4  | 86.0            | -                | 119  |             |
| Trichlorofluoromethane   | 1.0  | 5.0 | 49.3   |      | ug/L  | 50.0         | 98.6  | 68.0            | -                | 134  |             |
| 1,2,3-Trichloropropane   | 0.71 | 5.0 | 62.9   |      | ug/L  | 50.0         | 126   | 68.0            | -                | 137  |             |
| 1,2,4-Trimethylbenzene   | 0.82 | 1.0 | 50.3   |      | ug/L  | 50.0         | 101   | 83.0            | -                | 117  |             |
| 1,3,5-Trimethylbenzene   | 0.53 | 1.0 | 50.8   |      | ug/L  | 50.0         | 102   | 82.0            | -                | 118  |             |
| Vinyl chloride   | 0.74 | 1.0 | 50.1   |      | ug/L  | 50.0         | 100   | 60.0            | -                | 127  |             |
| Xylenes- Total   | 1.4  | 3.0 | 144    |      | ug/L  | 150          | 96.0  | 84.0            | -                | 121  |             |
| Toluene-d8   |      |     | 49.8   |      | ug/L  | 50.0         | 99.6  | 76.0            | -                | 115  |             |
| 4-Bromofluorobenzene   |      |     | 52.2   |      | ug/L  | 50.0         | 104   | 68.0            | -                | 118  |             |
| Dibromofluoromethane   |      |     | 50.6   |      | ug/L  | 50.0         | 101   | 75.0            | -                | 113  |             |
| 1,2-Dichloroethane-d4  |      |     | 51.4   |      | ug/L  | 50.0         | 103   | 75.0            | -                | 117  |             |

| Analyte   | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|---|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: LCSD      Lab Sample ID: LMSVA102517LCSD      Client Sample ID: LMSVA102517LCSD      Date Analyzed: 10/25/2017 8:26:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |
| Acetone   | 6.2  | 25  | 119    |      | ug/L  | 100          | 119   | 51.0            | -                | 192  | 20          |
| Benzene   | 0.52 | 1.0 | 48.0   |      | ug/L  | 50.0         | 96.0  | 86.0            | -                | 121  | 0.83        |
| Bromobenzene  | 0.57 | 1.0 | 47.7   |      | ug/L  | 50.0         | 95.4  | 87.0            | -                | 121  | 1.5         |
| Bromochloromethane  | 0.42 | 1.0 | 52.2   |      | ug/L  | 50.0         | 104   | 85.0            | -                | 129  | 1.5         |
| Bromodichloromethane  | 0.64 | 1.0 | 49.2   |      | ug/L  | 50.0         | 98.4  | 85.0            | -                | 128  | 2.9         |
| Bromoform   | 0.40 | 5.0 | 51.2   |      | ug/L  | 50.0         | 102   | 82.0            | -                | 130  | 0.59        |
| Bromomethane  | 1.8  | 5.0 | 39.3   |      | ug/L  | 50.0         | 78.6  | 34.0            | -                | 144  | 21          |
| 2-Butanone  | 5.8  | 25  | 134    |      | ug/L  | 100          | 134   | 71.0            | -                | 148  | 3.8         |
| n-Butylbenzene  | 0.44 | 1.0 | 50.4   |      | ug/L  | 50.0         | 101   | 71.0            | -                | 120  | 0.79        |
| sec-Butylbenzene  | 0.38 | 1.0 | 51.7   |      | ug/L  | 50.0         | 103   | 75.0            | -                | 120  | 0.58        |
| t-Butylbenzene  | 0.44 | 1.0 | 50.5   |      | ug/L  | 50.0         | 101   | 77.0            | -                | 124  | 0           |
| Carbon tetrachloride  | 0.52 | 5.0 | 49.1   |      | ug/L  | 50.0         | 98.2  | 74.0            | -                | 137  | 3.0         |
| Chlorobenzene   | 0.73 | 1.0 | 47.3   |      | ug/L  | 50.0         | 94.6  | 88.0            | -                | 118  | 1.1         |
| Chloroethane  | 0.75 | 5.0 | 51.7   |      | ug/L  | 50.0         | 103   | 62.0            | -                | 133  | 2.9         |
| Chloroform  | 0.35 | 1.0 | 50.2   |      | ug/L  | 50.0         | 100   | 83.0            | -                | 124  | 0.40        |
| Chloromethane   | 0.84 | 5.0 | 43.3   |      | ug/L  | 50.0         | 86.6  | 35.0            | -                | 131  | 4.3         |
| 2-Chlorotoluene   | 0.43 | 1.0 | 49.0   |      | ug/L  | 50.0         | 98.0  | 84.0            | -                | 121  | 0.41        |
| 4-Chlorotoluene   | 0.45 | 1.0 | 49.5   |      | ug/L  | 50.0         | 99.0  | 82.0            | -                | 120  | 0.61        |
| 1,2-Dibromo-3-chloropropane   | 0.32 | 5.0 | 48.8   |      | ug/L  | 50.0         | 97.6  | 65.0            | -                | 129  | 4.0         |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte   | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |  |
|---|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|--|
| QA/QC Type: LCSD      Lab Sample ID: LMSVA102517LCSD      Client Sample ID: LMSVA102517LCSD      Date Analyzed: 10/25/2017 8:26:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |  |
| Dibromochloromethane  | 0.60 | 1.0 | 52.4   |      | ug/L  | 50.0         | 105   | 87.0            | - 125            | 0.76 | 19.0        |  |
| 1,2-Dibromoethane   | 0.66 | 1.0 | 50.1   |      | ug/L  | 50.0         | 100   | 90.0            | - 122            | 0.60 | 16.0        |  |
| Dibromomethane  | 0.64 | 1.0 | 49.7   |      | ug/L  | 50.0         | 99.4  | 85.0            | - 120            | 2.4  | 18.0        |  |
| 1,2-Dichlorobenzene   | 0.41 | 1.0 | 48.8   |      | ug/L  | 50.0         | 97.6  | 85.0            | - 119            | 0.82 | 17.0        |  |
| 1,3-Dichlorobenzene   | 0.27 | 1.0 | 46.8   |      | ug/L  | 50.0         | 93.6  | 84.0            | - 120            | 0.85 | 18.0        |  |
| 1,4-Dichlorobenzene   | 0.54 | 1.0 | 47.6   |      | ug/L  | 50.0         | 95.2  | 83.0            | - 117            | 0.63 | 17.0        |  |
| Dichlorodifluoromethane   | 0.80 | 5.0 | 43.5   |      | ug/L  | 50.0         | 87.0  | 29.0            | - 128            | 2.6  | 50.0        |  |
| 1,1-Dichloroethane  | 0.47 | 1.0 | 48.2   |      | ug/L  | 50.0         | 96.4  | 74.0            | - 121            | 1.8  | 23.0        |  |
| 1,2-Dichloroethane  | 0.90 | 1.0 | 48.6   |      | ug/L  | 50.0         | 97.2  | 82.0            | - 126            | 0.41 | 22.0        |  |
| 1,1-Dichloroethene  | 0.54 | 1.0 | 47.3   |      | ug/L  | 50.0         | 94.6  | 69.0            | - 109            | 0.42 | 20.0        |  |
| cis-1,2-Dichloroethene  | 0.64 | 1.0 | 47.9   |      | ug/L  | 50.0         | 95.8  | 83.0            | - 123            | 1.2  | 20.0        |  |
| trans-1,2-Dichloroethene  | 0.69 | 1.0 | 49.4   |      | ug/L  | 50.0         | 98.8  | 79.0            | - 119            | 1.0  | 20.0        |  |
| 1,2-Dichloropropane   | 0.36 | 1.0 | 47.7   |      | ug/L  | 50.0         | 95.4  | 82.0            | - 123            | 1.7  | 21.0        |  |
| 1,3-Dichloropropane   | 0.58 | 1.0 | 51.0   |      | ug/L  | 50.0         | 102   | 90.0            | - 120            | 0    | 15.0        |  |
| 2,2-Dichloropropane   | 0.49 | 1.0 | 46.8   |      | ug/L  | 50.0         | 93.6  | 76.0            | - 128            | 3.2  | 26.0        |  |
| 1,1-Dichloropropene   | 0.49 | 1.0 | 48.4   |      | ug/L  | 50.0         | 96.8  | 78.0            | - 139            | 3.3  | 30.0        |  |
| Isopropylbenzene  | 0.50 | 1.0 | 52.2   |      | ug/L  | 50.0         | 104   | 78.0            | - 122            | 0.77 | 22.0        |  |
| Ethylbenzene  | 0.34 | 1.0 | 50.6   |      | ug/L  | 50.0         | 101   | 84.0            | - 125            | 1.8  | 21.0        |  |
| Hexachlorobutadiene   | 0.78 | 5.0 | 47.1   |      | ug/L  | 50.0         | 94.2  | 60.0            | - 125            | 0.21 | 32.0        |  |
| Styrene   | 0.51 | 1.0 | 49.5   |      | ug/L  | 50.0         | 99.0  | 79.0            | - 125            | 0.20 | 23.0        |  |
| Isopropylether  | 0.46 | 1.0 | 100    |      | ug/L  | 100          | 100   | 64.0            | - 138            | 2.0  | 37.0        |  |
| 4-Isopropyltoluene  | 0.53 | 1.0 | 52.6   |      | ug/L  | 50.0         | 105   | 74.0            | - 118            | 0    | 22.0        |  |
| Methylene chloride  | 1.1  | 5.0 | 48.9   |      | ug/L  | 50.0         | 97.8  | 69.0            | - 121            | 0.41 | 26.0        |  |
| Methyl-t-butyl ether  | 0.49 | 1.0 | 53.1   |      | ug/L  | 50.0         | 106   | 82.0            | - 129            | 0.94 | 24.0        |  |
| Naphthalene   | 0.56 | 5.0 | 47.4   |      | ug/L  | 50.0         | 94.8  | 64.0            | - 130            | 1.5  | 33.0        |  |
| n-Propylbenzene   | 0.52 | 1.0 | 52.0   |      | ug/L  | 50.0         | 104   | 79.0            | - 125            | 0.39 | 23.0        |  |
| 1,1,1,2-Tetrachloroethane   | 0.57 | 1.0 | 50.3   |      | ug/L  | 50.0         | 101   | 83.0            | - 137            | 1.6  | 27.0        |  |
| 1,1,2,2-Tetrachloroethane   | 0.41 | 1.0 | 50.5   |      | ug/L  | 50.0         | 101   | 79.0            | - 128            | 2.0  | 24.0        |  |
| Tetrachloroethene   | 0.82 | 1.0 | 48.3   |      | ug/L  | 50.0         | 96.6  | 62.0            | - 144            | 0.62 | 41.0        |  |
| Toluene   | 0.41 | 1.0 | 47.8   |      | ug/L  | 50.0         | 95.6  | 87.0            | - 119            | 0    | 16.0        |  |
| 1,2,3-Trichlorobenzene  | 1.5  | 5.0 | 44.4   |      | ug/L  | 50.0         | 88.8  | 43.0            | - 151            | 3.0  | 54.0        |  |
| 1,2,4-Trichlorobenzene  | 0.32 | 5.0 | 46.5   |      | ug/L  | 50.0         | 93.0  | 73.0            | - 118            | 1.5  | 22.0        |  |
| 1,1,1-Trichloroethane   | 0.43 | 1.0 | 50.1   |      | ug/L  | 50.0         | 100   | 81.0            | - 131            | 0.99 | 25.0        |  |
| 1,1,2-Trichloroethane   | 0.37 | 1.0 | 51.4   |      | ug/L  | 50.0         | 103   | 87.0            | - 121            | 0.39 | 17.0        |  |
| Trichloroethene   | 0.54 | 1.0 | 49.1   |      | ug/L  | 50.0         | 98.2  | 86.0            | - 119            | 2.9  | 17.0        |  |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte                | MDL  | PQL | Result | Qual                           | Units | Spike Amount | % REC | % REC Low Limit                   | - | % REC High Limit | %RPD | % RPD Limit                          |  |
|------------------------|------|-----|--------|--------------------------------|-------|--------------|-------|-----------------------------------|---|------------------|------|--------------------------------------|--|
| QA/QC Type: LCSD       |      |     |        | Lab Sample ID: LMSVA102517LCSD |       |              |       | Client Sample ID: LMSVA102517LCSD |   |                  |      | Date Analyzed: 10/25/2017 8:26:00 PM |  |
| Trichlorofluoromethane | 1.0  | 5.0 | 47.5   |                                | ug/L  | 50.0         | 95.0  | 68.0                              | - | 134              | 3.7  | 33.0                                 |  |
| 1,2,3-Trichloropropane | 0.71 | 5.0 | 65.1   |                                | ug/L  | 50.0         | 130   | 68.0                              | - | 137              | 3.4  | 34.0                                 |  |
| 1,2,4-Trimethylbenzene | 0.82 | 1.0 | 50.4   |                                | ug/L  | 50.0         | 101   | 83.0                              | - | 117              | 0.20 | 17.0                                 |  |
| 1,3,5-Trimethylbenzene | 0.53 | 1.0 | 51.0   |                                | ug/L  | 50.0         | 102   | 82.0                              | - | 118              | 0.39 | 18.0                                 |  |
| Vinyl chloride         | 0.74 | 1.0 | 48.9   |                                | ug/L  | 50.0         | 97.8  | 60.0                              | - | 127              | 2.4  | 33.0                                 |  |
| Xylenes- Total         | 1.4  | 3.0 | 144    |                                | ug/L  | 150          | 96.0  | 84.0                              | - | 121              | 0    | 18.0                                 |  |
| Toluene-d8             |      |     | 51.4   |                                | ug/L  | 50.0         | 103   | 76.0                              | - | 115              |      |                                      |  |
| 4-Bromofluorobenzene   |      |     | 53.0   |                                | ug/L  | 50.0         | 106   | 68.0                              | - | 118              |      |                                      |  |
| Dibromofluoromethane   |      |     | 50.8   |                                | ug/L  | 50.0         | 102   | 75.0                              | - | 113              |      |                                      |  |
| 1,2-Dichloroethane-d4  |      |     | 53.3   |                                | ug/L  | 50.0         | 107   | 75.0                              | - | 117              |      |                                      |  |

|                             |      |     |      |                              |      |      |      |                            |   |     |  |                                      |  |
|-----------------------------|------|-----|------|------------------------------|------|------|------|----------------------------|---|-----|--|--------------------------------------|--|
| QA/QC Type: MS              |      |     |      | Lab Sample ID: LMSVA102517MS |      |      |      | Client Sample ID: 220578MS |   |     |  | Date Analyzed: 10/26/2017 6:46:00 PM |  |
| Acetone                     | 6.2  | 25  | 110  |                              | ug/L | 100  | 110  | 50.0                       | - | 145 |  |                                      |  |
| Benzene                     | 0.52 | 1.0 | 52.2 |                              | ug/L | 50.0 | 104  | 69.0                       | - | 135 |  |                                      |  |
| Bromobenzene                | 0.57 | 1.0 | 52.3 |                              | ug/L | 50.0 | 105  | 78.0                       | - | 130 |  |                                      |  |
| Bromochloromethane          | 0.42 | 1.0 | 55.0 |                              | ug/L | 50.0 | 110  | 83.0                       | - | 134 |  |                                      |  |
| Bromodichloromethane        | 0.64 | 1.0 | 51.7 |                              | ug/L | 50.0 | 103  | 78.0                       | - | 134 |  |                                      |  |
| Bromoform                   | 0.40 | 5.0 | 54.8 |                              | ug/L | 50.0 | 110  | 73.0                       | - | 133 |  |                                      |  |
| Bromomethane                | 1.8  | 5.0 | 47.5 |                              | ug/L | 50.0 | 95.0 | 14.0                       | - | 137 |  |                                      |  |
| 2-Butanone                  | 5.8  | 25  | 155  | S2                           | ug/L | 100  | 155  | 61.0                       | - | 130 |  |                                      |  |
| n-Butylbenzene              | 0.44 | 1.0 | 54.7 |                              | ug/L | 50.0 | 109  | 64.0                       | - | 129 |  |                                      |  |
| sec-Butylbenzene            | 0.38 | 1.0 | 56.6 |                              | ug/L | 50.0 | 113  | 70.0                       | - | 128 |  |                                      |  |
| t-Butylbenzene              | 0.44 | 1.0 | 55.6 |                              | ug/L | 50.0 | 111  | 69.0                       | - | 135 |  |                                      |  |
| Carbon tetrachloride        | 0.52 | 5.0 | 54.9 |                              | ug/L | 50.0 | 110  | 73.0                       | - | 144 |  |                                      |  |
| Chlorobenzene               | 0.73 | 1.0 | 53.3 |                              | ug/L | 50.0 | 107  | 82.0                       | - | 127 |  |                                      |  |
| Chloroethane                | 0.75 | 5.0 | 58.6 |                              | ug/L | 50.0 | 117  | 65.0                       | - | 139 |  |                                      |  |
| Chloroform                  | 0.35 | 1.0 | 51.0 |                              | ug/L | 50.0 | 102  | 83.0                       | - | 128 |  |                                      |  |
| Chloromethane               | 0.84 | 5.0 | 43.5 |                              | ug/L | 50.0 | 87.0 | 36.0                       | - | 123 |  |                                      |  |
| 2-Chlorotoluene             | 0.43 | 1.0 | 51.6 |                              | ug/L | 50.0 | 103  | 80.0                       | - | 131 |  |                                      |  |
| 4-Chlorotoluene             | 0.45 | 1.0 | 51.6 |                              | ug/L | 50.0 | 103  | 76.0                       | - | 129 |  |                                      |  |
| 1,2-Dibromo-3-chloropropane | 0.32 | 5.0 | 52.2 |                              | ug/L | 50.0 | 104  | 62.0                       | - | 128 |  |                                      |  |
| Dibromochloromethane        | 0.60 | 1.0 | 57.7 |                              | ug/L | 50.0 | 115  | 81.0                       | - | 128 |  |                                      |  |
| 1,2-Dibromoethane           | 0.66 | 1.0 | 54.8 |                              | ug/L | 50.0 | 110  | 85.0                       | - | 123 |  |                                      |  |
| Dibromomethane              | 0.64 | 1.0 | 52.3 |                              | ug/L | 50.0 | 105  | 81.0                       | - | 121 |  |                                      |  |
| 1,2-Dichlorobenzene         | 0.41 | 1.0 | 54.0 |                              | ug/L | 50.0 | 108  | 78.0                       | - | 125 |  |                                      |  |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte  | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|--|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: MS      Lab Sample ID: LMSVA102517MS      Client Sample ID: 220578MS      Date Analyzed: 10/26/2017 6:46:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |
| 1,3-Dichlorobenzene  | 0.27 | 1.0 | 51.1   |      | ug/L  | 50.0         | 102   | 76.0            | -                | 127  |             |
| 1,4-Dichlorobenzene  | 0.54 | 1.0 | 52.3   |      | ug/L  | 50.0         | 105   | 75.0            | -                | 124  |             |
| Dichlorodifluoromethane  | 0.80 | 5.0 | 39.4   |      | ug/L  | 50.0         | 78.8  | 26.0            | -                | 124  |             |
| 1,1-Dichloroethane   | 0.47 | 1.0 | 48.4   |      | ug/L  | 50.0         | 96.8  | 74.0            | -                | 126  |             |
| 1,2-Dichloroethane   | 0.90 | 1.0 | 51.3   |      | ug/L  | 50.0         | 103   | 74.0            | -                | 133  |             |
| 1,1-Dichloroethene   | 0.54 | 1.0 | 48.6   |      | ug/L  | 50.0         | 97.2  | 67.0            | -                | 115  |             |
| cis-1,2-Dichloroethene   | 0.64 | 1.0 | 49.6   |      | ug/L  | 50.0         | 99.2  | 83.0            | -                | 127  |             |
| trans-1,2-Dichloroethene   | 0.69 | 1.0 | 51.7   |      | ug/L  | 50.0         | 103   | 80.0            | -                | 124  |             |
| 1,2-Dichloropropane  | 0.36 | 1.0 | 49.3   |      | ug/L  | 50.0         | 98.6  | 82.0            | -                | 126  |             |
| 1,3-Dichloropropane  | 0.58 | 1.0 | 53.9   |      | ug/L  | 50.0         | 108   | 84.0            | -                | 124  |             |
| 2,2-Dichloropropane  | 0.49 | 1.0 | 49.2   |      | ug/L  | 50.0         | 98.4  | 62.0            | -                | 133  |             |
| 1,1-Dichloropropene  | 0.49 | 1.0 | 53.0   |      | ug/L  | 50.0         | 106   | 79.0            | -                | 141  |             |
| Isopropylbenzene   | 0.50 | 1.0 | 56.2   |      | ug/L  | 50.0         | 112   | 73.0            | -                | 131  |             |
| Ethylbenzene   | 0.34 | 1.0 | 57.6   |      | ug/L  | 50.0         | 115   | 64.0            | -                | 141  |             |
| Hexachlorobutadiene  | 0.78 | 5.0 | 53.9   |      | ug/L  | 50.0         | 108   | 52.0            | -                | 125  |             |
| Styrene  | 0.51 | 1.0 | 53.7   |      | ug/L  | 50.0         | 107   | 72.0            | -                | 132  |             |
| Isopropylether   | 0.46 | 1.0 | 107    |      | ug/L  | 100          | 107   | 58.0            | -                | 151  |             |
| 4-Isopropyltoluene   | 0.53 | 1.0 | 57.5   |      | ug/L  | 50.0         | 115   | 55.0            | -                | 126  |             |
| Methylene chloride   | 1.1  | 5.0 | 48.3   |      | ug/L  | 50.0         | 96.6  | 63.0            | -                | 115  |             |
| Methyl-t-butyl ether   | 0.49 | 1.0 | 57.2   |      | ug/L  | 50.0         | 105   | 64.0            | -                | 135  |             |
| Naphthalene  | 0.56 | 5.0 | 52.3   |      | ug/L  | 50.0         | 105   | 60.0            | -                | 133  |             |
| n-Propylbenzene  | 0.52 | 1.0 | 55.7   |      | ug/L  | 50.0         | 111   | 75.0            | -                | 136  |             |
| 1,1,1,2-Tetrachloroethane  | 0.57 | 1.0 | 55.9   |      | ug/L  | 50.0         | 112   | 71.0            | -                | 151  |             |
| 1,1,2,2-Tetrachloroethane  | 0.41 | 1.0 | 51.3   |      | ug/L  | 50.0         | 103   | 73.0            | -                | 131  |             |
| Tetrachloroethene  | 0.82 | 1.0 | 55.2   |      | ug/L  | 50.0         | 110   | 64.0            | -                | 112  |             |
| Toluene  | 0.41 | 1.0 | 51.9   |      | ug/L  | 50.0         | 104   | 69.0            | -                | 132  |             |
| 1,2,3-Trichlorobenzene   | 1.5  | 5.0 | 50.3   |      | ug/L  | 50.0         | 101   | 60.0            | -                | 128  |             |
| 1,2,4-Trichlorobenzene   | 0.32 | 5.0 | 51.5   |      | ug/L  | 50.0         | 103   | 65.0            | -                | 117  |             |
| 1,1,1-Trichloroethane  | 0.43 | 1.0 | 54.8   |      | ug/L  | 50.0         | 110   | 77.0            | -                | 142  |             |
| 1,1,2-Trichloroethane  | 0.37 | 1.0 | 55.6   |      | ug/L  | 50.0         | 111   | 80.0            | -                | 128  |             |
| Trichloroethene  | 0.54 | 1.0 | 51.5   |      | ug/L  | 50.0         | 103   | 87.0            | -                | 121  |             |
| Trichlorofluoromethane   | 1.0  | 5.0 | 52.8   |      | ug/L  | 50.0         | 106   | 57.0            | -                | 152  |             |
| 1,2,3-Trichloropropane   | 0.71 | 5.0 | 63.6   |      | ug/L  | 50.0         | 127   | 67.0            | -                | 134  |             |
| 1,2,4-Trimethylbenzene   | 0.82 | 1.0 | 54.6   |      | ug/L  | 50.0         | 109   | 71.0            | -                | 130  |             |
| 1,3,5-Trimethylbenzene   | 0.53 | 1.0 | 54.7   |      | ug/L  | 50.0         | 109   | 73.0            | -                | 127  |             |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte               | MDL  | PQL                          | Result | Qual | Units                      | Spike Amount | % REC | % REC Low Limit                      | - | % REC High Limit | %RPD | % RPD Limit |
|-----------------------|------|------------------------------|--------|------|----------------------------|--------------|-------|--------------------------------------|---|------------------|------|-------------|
| QA/QC Type: MS        |      | Lab Sample ID: LMSVA102517MS |        |      | Client Sample ID: 220578MS |              |       | Date Analyzed: 10/26/2017 6:46:00 PM |   |                  |      |             |
| Vinyl chloride        | 0.74 | 1.0                          | 53.0   |      | ug/L                       | 50.0         | 106   | 61.0                                 | - | 134              |      |             |
| Xylenes- Total        | 1.4  | 3.0                          | 160    |      | ug/L                       | 150          | 107   | 68.0                                 | - | 133              |      |             |
| Toluene-d8            |      |                              | 50.2   |      | ug/L                       | 50.0         | 100   | 76.0                                 | - | 115              |      |             |
| 4-Bromofluorobenzene  |      |                              | 49.4   |      | ug/L                       | 50.0         | 98.8  | 68.0                                 | - | 118              |      |             |
| Dibromofluoromethane  |      |                              | 51.6   |      | ug/L                       | 50.0         | 103   | 75.0                                 | - | 113              |      |             |
| 1,2-Dichloroethane-d4 |      |                              | 53.5   |      | ug/L                       | 50.0         | 107   | 75.0                                 | - | 117              |      |             |

| Analyte                     | MDL  | PQL                           | Result | Qual | Units                       | Spike Amount | % REC | % REC Low Limit                      | - | % REC High Limit | %RPD | % RPD Limit |
|-----------------------------|------|-------------------------------|--------|------|-----------------------------|--------------|-------|--------------------------------------|---|------------------|------|-------------|
| QA/QC Type: MSD             |      | Lab Sample ID: LMSVA102517MSD |        |      | Client Sample ID: 220578MSD |              |       | Date Analyzed: 10/26/2017 7:10:00 PM |   |                  |      |             |
| Acetone                     | 6.2  | 25                            | 84.9   |      | ug/L                        | 100          | 84.9  | 50.0                                 | - | 145              | 26   | 47.0        |
| Benzene                     | 0.52 | 1.0                           | 51.0   |      | ug/L                        | 50.0         | 102   | 69.0                                 | - | 135              | 2.3  | 33.0        |
| Bromobenzene                | 0.57 | 1.0                           | 52.0   |      | ug/L                        | 50.0         | 104   | 78.0                                 | - | 130              | 0.58 | 26.0        |
| Bromochloromethane          | 0.42 | 1.0                           | 53.2   |      | ug/L                        | 50.0         | 106   | 83.0                                 | - | 134              | 3.3  | 26.0        |
| Bromodichloromethane        | 0.64 | 1.0                           | 49.8   |      | ug/L                        | 50.0         | 99.6  | 78.0                                 | - | 134              | 3.7  | 28.0        |
| Bromoform                   | 0.40 | 5.0                           | 54.5   |      | ug/L                        | 50.0         | 109   | 73.0                                 | - | 133              | 0.55 | 30.0        |
| Bromomethane                | 1.8  | 5.0                           | 49.1   |      | ug/L                        | 50.0         | 98.2  | 14.0                                 | - | 137              | 3.3  | 62.0        |
| 2-Butanone                  | 5.8  | 25                            | 124    |      | ug/L                        | 100          | 124   | 61.0                                 | - | 130              | 22   | 34.0        |
| n-Butylbenzene              | 0.44 | 1.0                           | 55.1   |      | ug/L                        | 50.0         | 110   | 64.0                                 | - | 129              | 0.73 | 32.0        |
| sec-Butylbenzene            | 0.38 | 1.0                           | 56.2   |      | ug/L                        | 50.0         | 112   | 70.0                                 | - | 128              | 0.71 | 29.0        |
| t-Butylbenzene              | 0.44 | 1.0                           | 55.0   |      | ug/L                        | 50.0         | 110   | 69.0                                 | - | 135              | 1.1  | 33.0        |
| Carbon tetrachloride        | 0.52 | 5.0                           | 53.3   |      | ug/L                        | 50.0         | 107   | 73.0                                 | - | 144              | 3.0  | 35.0        |
| Chlorobenzene               | 0.73 | 1.0                           | 51.6   |      | ug/L                        | 50.0         | 103   | 82.0                                 | - | 127              | 3.2  | 22.0        |
| Chloroethane                | 0.75 | 5.0                           | 58.3   |      | ug/L                        | 50.0         | 117   | 65.0                                 | - | 139              | 0.51 | 37.0        |
| Chloroform                  | 0.35 | 1.0                           | 50.4   |      | ug/L                        | 50.0         | 101   | 83.0                                 | - | 128              | 1.2  | 23.0        |
| Chloromethane               | 0.84 | 5.0                           | 43.3   |      | ug/L                        | 50.0         | 86.6  | 36.0                                 | - | 123              | 0.46 | 43.0        |
| 2-Chlorotoluene             | 0.43 | 1.0                           | 51.7   |      | ug/L                        | 50.0         | 103   | 80.0                                 | - | 131              | 0.19 | 25.0        |
| 4-Chlorotoluene             | 0.45 | 1.0                           | 51.3   |      | ug/L                        | 50.0         | 103   | 76.0                                 | - | 129              | 0.58 | 27.0        |
| 1,2-Dibromo-3-chloropropane | 0.32 | 5.0                           | 50.7   |      | ug/L                        | 50.0         | 101   | 62.0                                 | - | 128              | 2.9  | 33.0        |
| Dibromochloromethane        | 0.60 | 1.0                           | 56.3   |      | ug/L                        | 50.0         | 113   | 81.0                                 | - | 128              | 2.5  | 23.0        |
| 1,2-Dibromoethane           | 0.66 | 1.0                           | 52.4   |      | ug/L                        | 50.0         | 105   | 85.0                                 | - | 123              | 4.5  | 19.0        |
| Dibromomethane              | 0.64 | 1.0                           | 51.8   |      | ug/L                        | 50.0         | 104   | 81.0                                 | - | 121              | 0.96 | 20.0        |
| 1,2-Dichlorobenzene         | 0.41 | 1.0                           | 53.3   |      | ug/L                        | 50.0         | 107   | 78.0                                 | - | 125              | 1.3  | 24.0        |
| 1,3-Dichlorobenzene         | 0.27 | 1.0                           | 51.3   |      | ug/L                        | 50.0         | 103   | 76.0                                 | - | 127              | 0.39 | 25.0        |
| 1,4-Dichlorobenzene         | 0.54 | 1.0                           | 52.0   |      | ug/L                        | 50.0         | 104   | 75.0                                 | - | 124              | 0.58 | 24.0        |
| Dichlorodifluoromethane     | 0.80 | 5.0                           | 41.4   |      | ug/L                        | 50.0         | 82.8  | 26.0                                 | - | 124              | 5.0  | 49.0        |
| 1,1-Dichloroethane          | 0.47 | 1.0                           | 49.1   |      | ug/L                        | 50.0         | 98.2  | 74.0                                 | - | 126              | 1.4  | 26.0        |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte   | MDL  | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|---|------|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: MSD      Lab Sample ID: LMSVA102517MSD      Client Sample ID: 220578MSD      Date Analyzed: 10/26/2017 7:10:00 PM |      |     |        |      |       |              |       |                 |                  |      |             |
| 1,2-Dichloroethane  | 0.90 | 1.0 | 50.1   |      | ug/L  | 50.0         | 100   | 74.0            | - 133            | 2.4  | 29.0        |
| 1,1-Dichloroethene  | 0.54 | 1.0 | 48.4   |      | ug/L  | 50.0         | 96.8  | 67.0            | - 115            | 0.41 | 24.0        |
| cis-1,2-Dichloroethene  | 0.64 | 1.0 | 49.3   |      | ug/L  | 50.0         | 98.6  | 83.0            | - 127            | 0.61 | 22.0        |
| trans-1,2-Dichloroethene  | 0.69 | 1.0 | 51.2   |      | ug/L  | 50.0         | 102   | 80.0            | - 124            | 0.97 | 22.0        |
| 1,2-Dichloropropane   | 0.36 | 1.0 | 48.6   |      | ug/L  | 50.0         | 97.2  | 82.0            | - 126            | 1.4  | 22.0        |
| 1,3-Dichloropropane   | 0.58 | 1.0 | 52.6   |      | ug/L  | 50.0         | 105   | 84.0            | - 124            | 2.4  | 20.0        |
| 2,2-Dichloropropane   | 0.49 | 1.0 | 48.2   |      | ug/L  | 50.0         | 96.4  | 62.0            | - 133            | 2.1  | 36.0        |
| 1,1-Dichloropropene   | 0.49 | 1.0 | 51.1   |      | ug/L  | 50.0         | 102   | 79.0            | - 141            | 3.7  | 31.0        |
| Isopropylbenzene  | 0.50 | 1.0 | 56.6   |      | ug/L  | 50.0         | 113   | 73.0            | - 131            | 0.71 | 29.0        |
| Ethylbenzene  | 0.34 | 1.0 | 55.5   |      | ug/L  | 50.0         | 111   | 64.0            | - 141            | 3.7  | 39.0        |
| Hexachlorobutadiene   | 0.78 | 5.0 | 55.5   |      | ug/L  | 50.0         | 111   | 52.0            | - 125            | 2.9  | 36.0        |
| Styrene   | 0.51 | 1.0 | 53.3   |      | ug/L  | 50.0         | 107   | 72.0            | - 132            | 0.75 | 30.0        |
| Isopropylether  | 0.46 | 1.0 | 105    |      | ug/L  | 100          | 105   | 58.0            | - 151            | 1.9  | 46.0        |
| 4-Isopropyltoluene  | 0.53 | 1.0 | 57.6   |      | ug/L  | 50.0         | 115   | 55.0            | - 126            | 0.17 | 30.0        |
| Methylene chloride  | 1.1  | 5.0 | 49.2   |      | ug/L  | 50.0         | 98.4  | 63.0            | - 115            | 1.8  | 26.0        |
| Methyl-t-butyl ether  | 0.49 | 1.0 | 58.1   |      | ug/L  | 50.0         | 106   | 64.0            | - 135            | 1.6  | 36.0        |
| Naphthalene   | 0.56 | 5.0 | 53.6   |      | ug/L  | 50.0         | 107   | 60.0            | - 133            | 2.5  | 37.0        |
| n-Propylbenzene   | 0.52 | 1.0 | 56.0   |      | ug/L  | 50.0         | 112   | 75.0            | - 136            | 0.54 | 31.0        |
| 1,1,1,2-Tetrachloroethane   | 0.57 | 1.0 | 54.2   |      | ug/L  | 50.0         | 108   | 71.0            | - 151            | 3.1  | 40.0        |
| 1,1,2,2-Tetrachloroethane   | 0.41 | 1.0 | 52.0   |      | ug/L  | 50.0         | 104   | 73.0            | - 131            | 1.4  | 29.0        |
| Tetrachloroethene   | 0.82 | 1.0 | 53.5   |      | ug/L  | 50.0         | 107   | 64.0            | - 112            | 3.1  | 24.0        |
| Toluene   | 0.41 | 1.0 | 50.8   |      | ug/L  | 50.0         | 102   | 69.0            | - 132            | 2.1  | 32.0        |
| 1,2,3-Trichlorobenzene  | 1.5  | 5.0 | 53.1   |      | ug/L  | 50.0         | 106   | 60.0            | - 128            | 5.4  | 34.0        |
| 1,2,4-Trichlorobenzene  | 0.32 | 5.0 | 52.9   |      | ug/L  | 50.0         | 106   | 65.0            | - 117            | 2.7  | 26.0        |
| 1,1,1-Trichloroethane   | 0.43 | 1.0 | 53.5   |      | ug/L  | 50.0         | 107   | 77.0            | - 142            | 2.4  | 33.0        |
| 1,1,2-Trichloroethane   | 0.37 | 1.0 | 53.4   |      | ug/L  | 50.0         | 107   | 80.0            | - 128            | 4.0  | 24.0        |
| Trichloroethene   | 0.54 | 1.0 | 49.8   |      | ug/L  | 50.0         | 99.6  | 87.0            | - 121            | 3.4  | 17.0        |
| Trichlorofluoromethane  | 1.0  | 5.0 | 52.3   |      | ug/L  | 50.0         | 105   | 57.0            | - 152            | 0.95 | 48.0        |
| 1,2,3-Trichloropropane  | 0.71 | 5.0 | 65.0   |      | ug/L  | 50.0         | 130   | 67.0            | - 134            | 2.2  | 33.0        |
| 1,2,4-Trimethylbenzene  | 0.82 | 1.0 | 53.8   |      | ug/L  | 50.0         | 108   | 71.0            | - 130            | 1.5  | 30.0        |
| 1,3,5-Trimethylbenzene  | 0.53 | 1.0 | 54.6   |      | ug/L  | 50.0         | 109   | 73.0            | - 127            | 0.18 | 27.0        |
| Vinyl chloride  | 0.74 | 1.0 | 52.9   |      | ug/L  | 50.0         | 106   | 61.0            | - 134            | 0.19 | 37.0        |
| Xylenes- Total  | 1.4  | 3.0 | 155    |      | ug/L  | 150          | 103   | 68.0            | - 133            | 3.2  | 33.0        |
| Toluene-d8  |      |     | 50.6   |      | ug/L  | 50.0         | 101   | 76.0            | - 115            |      |             |
| 4-Bromofluorobenzene  |      |     | 51.4   |      | ug/L  | 50.0         | 103   | 68.0            | - 118            |      |             |

**QUALITY ASSURANCE / QUALITY CONTROL DATA**



Preparation Batch ID: LMSVA102517

Analysis Method: EPA 8260

Preparation Type: 5030

Method Batch ID: MLMSVA102517

Preparation Date: 10/25/2017 9:39:00 PM

| Analyte | MDL | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | - | % REC High Limit | %RPD | % RPD Limit |
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|

|                       |                               |                             |                                      |      |     |      |   |     |
|-----------------------|-------------------------------|-----------------------------|--------------------------------------|------|-----|------|---|-----|
| QA/QC Type: MSD       | Lab Sample ID: LMSVA102517MSD | Client Sample ID: 220578MSD | Date Analyzed: 10/26/2017 7:10:00 PM |      |     |      |   |     |
| Dibromofluoromethane  |                               | 51.3                        | ug/L                                 | 50.0 | 103 | 75.0 | - | 113 |
| 1,2-Dichloroethane-d4 |                               | 52.8                        | ug/L                                 | 50.0 | 106 | 75.0 | - | 117 |

**Comments:**

Preparation Batch ID: WPAHA102417

Analysis Method: EPA 8270/PAH Low Level

Preparation Type: 3510

Method Batch ID: MWPAHA102417

Preparation Date: 10/24/2017 12:35:00 PM

| Analyte | MDL | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | - | % REC High Limit | %RPD | % RPD Limit |
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|

|                        |                              |                                 |                                      |   |      |     |      |      |   |     |  |  |
|------------------------|------------------------------|---------------------------------|--------------------------------------|---|------|-----|------|------|---|-----|--|--|
| QA/QC Type: MB         | Lab Sample ID: WPAHA102417MB | Client Sample ID: WPAHA102417MB | Date Analyzed: 10/25/2017 7:44:00 PM |   |      |     |      |      |   |     |  |  |
| Naphthalene            | 0.13                         | 2.0                             | 0.13                                 | U | ug/L |     |      |      |   |     |  |  |
| Acenaphthylene         | 0.19                         | 2.0                             | 0.19                                 | U | ug/L |     |      |      |   |     |  |  |
| Acenaphthene           | 0.26                         | 2.0                             | 0.26                                 | U | ug/L |     |      |      |   |     |  |  |
| Fluorene               | 0.16                         | 2.0                             | 0.16                                 | U | ug/L |     |      |      |   |     |  |  |
| Phenanthrene           | 0.26                         | 2.0                             | 0.26                                 | U | ug/L |     |      |      |   |     |  |  |
| Anthracene             | 0.19                         | 2.0                             | 0.19                                 | U | ug/L |     |      |      |   |     |  |  |
| Fluoranthene           | 0.17                         | 2.0                             | 0.17                                 | U | ug/L |     |      |      |   |     |  |  |
| 1-Methylnaphthalene    | 0.21                         | 2.0                             | 0.21                                 | U | ug/L |     |      |      |   |     |  |  |
| 2-Methylnaphthalene    | 0.21                         | 2.0                             | 0.21                                 | U | ug/L |     |      |      |   |     |  |  |
| Pyrene                 | 0.18                         | 2.0                             | 0.18                                 | U | ug/L |     |      |      |   |     |  |  |
| Benzo(a)anthracene     | 0.10                         | 0.20                            | 0.10                                 | U | ug/L |     |      |      |   |     |  |  |
| Chrysene               | 0.21                         | 2.0                             | 0.21                                 | U | ug/L |     |      |      |   |     |  |  |
| Benzo(b)fluoranthene   | 0.088                        | 0.10                            | 0.088                                | U | ug/L |     |      |      |   |     |  |  |
| Benzo(k)fluoranthene   | 0.083                        | 0.20                            | 0.083                                | U | ug/L |     |      |      |   |     |  |  |
| Benzo(a)pyrene         | 0.090                        | 0.20                            | 0.090                                | U | ug/L |     |      |      |   |     |  |  |
| Indeno(1,2,3-cd)pyrene | 0.047                        | 0.20                            | 0.047                                | U | ug/L |     |      |      |   |     |  |  |
| Dibenzo(a,h)anthracene | 0.057                        | 0.20                            | 0.057                                | U | ug/L |     |      |      |   |     |  |  |
| Benzo(g,h,i)perylene   | 0.34                         | 2.0                             | 0.34                                 | U | ug/L |     |      |      |   |     |  |  |
| Nitrobenzene-d5        |                              |                                 | 91.3                                 |   | %    | 100 | 91.3 | 24.0 | - | 100 |  |  |
| 2-Fluorobiphenyl       |                              |                                 | 78.7                                 |   | %    | 100 | 78.7 | 31.0 | - | 110 |  |  |
| p-Terphenyl-d14        |                              |                                 | 85.6                                 |   | %    | 100 | 85.6 | 45.0 | - | 125 |  |  |

|                 |                               |                                  |                                      |
|-----------------|-------------------------------|----------------------------------|--------------------------------------|
| QA/QC Type: LCS | Lab Sample ID: WPAHA102417LCS | Client Sample ID: WPAHA102417LCS | Date Analyzed: 10/25/2017 5:55:00 PM |
|-----------------|-------------------------------|----------------------------------|--------------------------------------|

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPAHA102417

Analysis Method: EPA 8270/PAH Low Level

Preparation Type: 3510

Method Batch ID: MWPAHA102417

Preparation Date: 10/24/2017 12:35:00 PM

| Analyte                | MDL   | PQL  | Result | Qual                          | Units | Spike Amount | % REC | % REC Low Limit                  | - | % REC High Limit | %RPD | % RPD Limit                          |  |
|------------------------|-------|------|--------|-------------------------------|-------|--------------|-------|----------------------------------|---|------------------|------|--------------------------------------|--|
| QA/QC Type: LCS        |       |      |        | Lab Sample ID: WPAHA102417LCS |       |              |       | Client Sample ID: WPAHA102417LCS |   |                  |      | Date Analyzed: 10/25/2017 5:55:00 PM |  |
| Naphthalene            | 0.13  | 2.0  | 39.4   |                               | ug/L  | 50.0         | 78.8  | 40.0                             | - | 105              |      |                                      |  |
| Acenaphthylene         | 0.19  | 2.0  | 41.0   |                               | ug/L  | 50.0         | 82.0  | 38.0                             | - | 115              |      |                                      |  |
| Acenaphthene           | 0.26  | 2.0  | 41.5   |                               | ug/L  | 50.0         | 83.0  | 46.0                             | - | 121              |      |                                      |  |
| Fluorene               | 0.16  | 2.0  | 40.2   |                               | ug/L  | 50.0         | 80.4  | 47.0                             | - | 122              |      |                                      |  |
| Phenanthrene           | 0.26  | 2.0  | 42.9   |                               | ug/L  | 50.0         | 85.8  | 51.0                             | - | 130              |      |                                      |  |
| Anthracene             | 0.19  | 2.0  | 43.2   |                               | ug/L  | 50.0         | 86.4  | 47.0                             | - | 124              |      |                                      |  |
| Fluoranthene           | 0.17  | 2.0  | 46.2   |                               | ug/L  | 50.0         | 92.4  | 45.0                             | - | 126              |      |                                      |  |
| 1-Methylnaphthalene    | 0.21  | 2.0  | 41.7   |                               | ug/L  | 50.0         | 83.4  | 40.0                             | - | 111              |      |                                      |  |
| 2-Methylnaphthalene    | 0.21  | 2.0  | 38.7   |                               | ug/L  | 50.0         | 77.4  | 39.0                             | - | 108              |      |                                      |  |
| Pyrene                 | 0.18  | 2.0  | 47.6   |                               | ug/L  | 50.0         | 95.2  | 47.0                             | - | 131              |      |                                      |  |
| Benzo(a)anthracene     | 0.10  | 0.20 | 47.5   |                               | ug/L  | 50.0         | 95.0  | 45.0                             | - | 131              |      |                                      |  |
| Chrysene               | 0.21  | 2.0  | 45.9   |                               | ug/L  | 50.0         | 91.8  | 45.0                             | - | 128              |      |                                      |  |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 48.8   |                               | ug/L  | 50.0         | 97.6  | 44.0                             | - | 124              |      |                                      |  |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 47.6   |                               | ug/L  | 50.0         | 95.2  | 44.0                             | - | 124              |      |                                      |  |
| Benzo(a)pyrene         | 0.090 | 0.20 | 48.6   |                               | ug/L  | 50.0         | 97.2  | 39.0                             | - | 116              |      |                                      |  |
| Indeno(1,2,3-cd)pyrene | 0.047 | 0.20 | 42.1   |                               | ug/L  | 50.0         | 84.2  | 42.0                             | - | 126              |      |                                      |  |
| Dibenzo(a,h)anthracene | 0.057 | 0.20 | 37.7   |                               | ug/L  | 50.0         | 75.4  | 42.0                             | - | 126              |      |                                      |  |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 40.8   |                               | ug/L  | 50.0         | 81.6  | 35.0                             | - | 123              |      |                                      |  |
| Nitrobenzene-d5        |       |      | 100    |                               | %     | 100          | 100   | 24.0                             | - | 100              |      |                                      |  |
| 2-Fluorobiphenyl       |       |      | 81.3   |                               | %     | 100          | 81.3  | 31.0                             | - | 110              |      |                                      |  |
| p-Terphenyl-d14        |       |      | 95.3   |                               | %     | 100          | 95.3  | 45.0                             | - | 125              |      |                                      |  |

|                     |      |      |      |                                |      |      |      |                                   |   |     |      |                                      |  |
|---------------------|------|------|------|--------------------------------|------|------|------|-----------------------------------|---|-----|------|--------------------------------------|--|
| QA/QC Type: LCSD    |      |      |      | Lab Sample ID: WPAHA102417LCSD |      |      |      | Client Sample ID: WPAHA102417LCSD |   |     |      | Date Analyzed: 10/25/2017 6:31:00 PM |  |
| Naphthalene         | 0.13 | 2.0  | 44.4 |                                | ug/L | 50.0 | 88.8 | 40.0                              | - | 105 | 12   | 32.0                                 |  |
| Acenaphthylene      | 0.19 | 2.0  | 45.0 |                                | ug/L | 50.0 | 90.0 | 38.0                              | - | 115 | 9.3  | 38.0                                 |  |
| Acenaphthene        | 0.26 | 2.0  | 45.7 |                                | ug/L | 50.0 | 91.4 | 46.0                              | - | 121 | 9.6  | 37.0                                 |  |
| Fluorene            | 0.16 | 2.0  | 46.3 |                                | ug/L | 50.0 | 92.6 | 47.0                              | - | 122 | 14   | 38.0                                 |  |
| Phenanthrene        | 0.26 | 2.0  | 46.7 |                                | ug/L | 50.0 | 93.4 | 51.0                              | - | 130 | 8.5  | 39.0                                 |  |
| Anthracene          | 0.19 | 2.0  | 46.7 |                                | ug/L | 50.0 | 93.4 | 47.0                              | - | 124 | 7.8  | 39.0                                 |  |
| Fluoranthene        | 0.17 | 2.0  | 46.6 |                                | ug/L | 50.0 | 93.2 | 45.0                              | - | 126 | 0.86 | 41.0                                 |  |
| 1-Methylnaphthalene | 0.21 | 2.0  | 46.8 |                                | ug/L | 50.0 | 93.6 | 40.0                              | - | 111 | 12   | 36.0                                 |  |
| 2-Methylnaphthalene | 0.21 | 2.0  | 43.4 |                                | ug/L | 50.0 | 86.8 | 39.0                              | - | 108 | 11   | 35.0                                 |  |
| Pyrene              | 0.18 | 2.0  | 50.2 |                                | ug/L | 50.0 | 100  | 47.0                              | - | 131 | 5.3  | 42.0                                 |  |
| Benzo(a)anthracene  | 0.10 | 0.20 | 50.5 |                                | ug/L | 50.0 | 101  | 45.0                              | - | 131 | 6.1  | 43.0                                 |  |
| Chrysene            | 0.21 | 2.0  | 51.0 |                                | ug/L | 50.0 | 102  | 45.0                              | - | 128 | 11   | 41.0                                 |  |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPAHA102417

Analysis Method: EPA 8270/PAH Low Level

Preparation Type: 3510

Method Batch ID: MWPAHA102417

Preparation Date: 10/24/2017 12:35:00 PM

| Analyte                | MDL   | PQL  | Result | Qual                           | Units | Spike Amount | % REC | % REC Low Limit                   | - | % REC High Limit | %RPD | % RPD Limit                          |  |
|------------------------|-------|------|--------|--------------------------------|-------|--------------|-------|-----------------------------------|---|------------------|------|--------------------------------------|--|
| QA/QC Type: LCSD       |       |      |        | Lab Sample ID: WPAHA102417LCSD |       |              |       | Client Sample ID: WPAHA102417LCSD |   |                  |      | Date Analyzed: 10/25/2017 6:31:00 PM |  |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 55.1   |                                | ug/L  | 50.0         | 110   | 44.0                              | - | 124              | 12   | 40.0                                 |  |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 52.4   |                                | ug/L  | 50.0         | 105   | 44.0                              | - | 124              | 9.6  | 40.0                                 |  |
| Benzo(a)pyrene         | 0.090 | 0.20 | 54.6   |                                | ug/L  | 50.0         | 109   | 39.0                              | - | 116              | 12   | 39.0                                 |  |
| Indeno(1,2,3-cd)pyrene | 0.047 | 0.20 | 45.8   |                                | ug/L  | 50.0         | 91.6  | 42.0                              | - | 126              | 8.4  | 42.0                                 |  |
| Dibenzo(a,h)anthracene | 0.057 | 0.20 | 43.0   |                                | ug/L  | 50.0         | 86.0  | 42.0                              | - | 126              | 13   | 42.0                                 |  |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 45.9   |                                | ug/L  | 50.0         | 91.8  | 35.0                              | - | 123              | 12   | 44.0                                 |  |
| Nitrobenzene-d5        |       |      | 98.0   |                                | %     | 100          | 98.0  | 24.0                              | - | 100              |      |                                      |  |
| 2-Fluorobiphenyl       |       |      | 88.8   |                                | %     | 100          | 88.8  | 31.0                              | - | 110              |      |                                      |  |
| p-Terphenyl-d14        |       |      | 103    |                                | %     | 100          | 103   | 45.0                              | - | 125              |      |                                      |  |

|                        |       |      |      |                              |      |      |      |                            |   |     |  |                                       |  |
|------------------------|-------|------|------|------------------------------|------|------|------|----------------------------|---|-----|--|---------------------------------------|--|
| QA/QC Type: MS         |       |      |      | Lab Sample ID: WPAHA102417MS |      |      |      | Client Sample ID: 220605MS |   |     |  | Date Analyzed: 10/26/2017 11:02:00 AM |  |
| Naphthalene            | 0.13  | 2.0  | 42.5 |                              | ug/L | 50.0 | 85.0 | 14.0                       | - | 115 |  |                                       |  |
| Acenaphthylene         | 0.19  | 2.0  | 45.3 |                              | ug/L | 50.0 | 90.6 | 26.0                       | - | 115 |  |                                       |  |
| Acenaphthene           | 0.26  | 2.0  | 43.6 |                              | ug/L | 50.0 | 87.2 | 30.0                       | - | 118 |  |                                       |  |
| Fluorene               | 0.16  | 2.0  | 41.1 |                              | ug/L | 50.0 | 82.2 | 33.0                       | - | 119 |  |                                       |  |
| Phenanthrene           | 0.26  | 2.0  | 46.0 |                              | ug/L | 50.0 | 92.0 | 39.0                       | - | 126 |  |                                       |  |
| Anthracene             | 0.19  | 2.0  | 46.1 |                              | ug/L | 50.0 | 92.2 | 37.0                       | - | 119 |  |                                       |  |
| Fluoranthene           | 0.17  | 2.0  | 49.6 |                              | ug/L | 50.0 | 99.2 | 37.0                       | - | 123 |  |                                       |  |
| 1-Methylnaphthalene    | 0.21  | 2.0  | 46.4 |                              | ug/L | 50.0 | 92.8 | 22.0                       | - | 109 |  |                                       |  |
| 2-Methylnaphthalene    | 0.21  | 2.0  | 42.7 |                              | ug/L | 50.0 | 85.4 | 17.0                       | - | 111 |  |                                       |  |
| Pyrene                 | 0.18  | 2.0  | 50.4 |                              | ug/L | 50.0 | 101  | 38.0                       | - | 126 |  |                                       |  |
| Benzo(a)anthracene     | 0.10  | 0.20 | 49.2 |                              | ug/L | 50.0 | 98.4 | 36.0                       | - | 121 |  |                                       |  |
| Chrysene               | 0.21  | 2.0  | 41.9 |                              | ug/L | 50.0 | 83.8 | 31.0                       | - | 126 |  |                                       |  |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 50.8 |                              | ug/L | 50.0 | 102  | 34.0                       | - | 120 |  |                                       |  |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 48.7 |                              | ug/L | 50.0 | 97.4 | 34.0                       | - | 120 |  |                                       |  |
| Benzo(a)pyrene         | 0.090 | 0.20 | 50.2 |                              | ug/L | 50.0 | 100  | 31.0                       | - | 113 |  |                                       |  |
| Indeno(1,2,3-cd)pyrene | 0.047 | 0.20 | 41.8 |                              | ug/L | 50.0 | 83.6 | 30.0                       | - | 120 |  |                                       |  |
| Dibenzo(a,h)anthracene | 0.057 | 0.20 | 38.9 |                              | ug/L | 50.0 | 77.8 | 30.0                       | - | 121 |  |                                       |  |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 40.6 |                              | ug/L | 50.0 | 81.2 | 24.0                       | - | 115 |  |                                       |  |
| Nitrobenzene-d5        |       |      | 89.1 |                              | %    | 100  | 89.1 | 24.0                       | - | 100 |  |                                       |  |
| 2-Fluorobiphenyl       |       |      | 82.1 |                              | %    | 100  | 82.1 | 31.0                       | - | 110 |  |                                       |  |
| p-Terphenyl-d14        |       |      | 94.0 |                              | %    | 100  | 94.0 | 45.0                       | - | 125 |  |                                       |  |

|                 |      |     |      |                               |      |  |  |                             |  |  |     |                                       |  |
|-----------------|------|-----|------|-------------------------------|------|--|--|-----------------------------|--|--|-----|---------------------------------------|--|
| QA/QC Type: DUP |      |     |      | Lab Sample ID: WPAHA102417DUP |      |  |  | Client Sample ID: 220611DUP |  |  |     | Date Analyzed: 10/26/2017 10:25:00 AM |  |
| Naphthalene     | 0.13 | 2.0 | 0.82 | I                             | ug/L |  |  |                             |  |  | 4.8 | 51.0                                  |  |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPAHA102417

Analysis Method: EPA 8270/PAH Low Level

Preparation Type: 3510

Method Batch ID: MWPAHA102417

Preparation Date: 10/24/2017 12:35:00 PM

| Analyte                | MDL   | PQL  | Result | Qual                          | Units | Spike Amount | % REC | % REC Low Limit             | - | % REC High Limit | %RPD | % RPD Limit                           |  |
|------------------------|-------|------|--------|-------------------------------|-------|--------------|-------|-----------------------------|---|------------------|------|---------------------------------------|--|
| QA/QC Type: DUP        |       |      |        | Lab Sample ID: WPAHA102417DUP |       |              |       | Client Sample ID: 220611DUP |   |                  |      | Date Analyzed: 10/26/2017 10:25:00 AM |  |
| Acenaphthylene         | 0.19  | 2.0  | 0.26   | I                             | ug/L  |              |       |                             |   |                  | 8.0  | 44.0                                  |  |
| Acenaphthene           | 0.26  | 2.0  | 1.1    | I                             | ug/L  |              |       |                             |   |                  | 0    | 44.0                                  |  |
| Fluorene               | 0.16  | 2.0  | 1.9    | I                             | ug/L  |              |       |                             |   |                  | 10   | 43.0                                  |  |
| Phenanthrene           | 0.26  | 2.0  | 0.26   | US3                           | ug/L  |              |       |                             |   |                  | 140  | 44.0                                  |  |
| Anthracene             | 0.19  | 2.0  | 1.2    | I                             | ug/L  |              |       |                             |   |                  | 0    | 41.0                                  |  |
| Fluoranthene           | 0.17  | 2.0  | 0.21   | I                             | ug/L  |              |       |                             |   |                  | 10   | 43.0                                  |  |
| 1-Methylnaphthalene    | 0.21  | 2.0  | 2.9    |                               | ug/L  |              |       |                             |   |                  | 6.7  | 44.0                                  |  |
| 2-Methylnaphthalene    | 0.21  | 2.0  | 2.5    |                               | ug/L  |              |       |                             |   |                  | 3.9  | 47.0                                  |  |
| Pyrene                 | 0.18  | 2.0  | 0.18   | U                             | ug/L  |              |       |                             |   |                  | 40   | 44.0                                  |  |
| Benzo(a)anthracene     | 0.10  | 0.20 | 0.10   | U                             | ug/L  |              |       |                             |   |                  | 0    | 42.0                                  |  |
| Chrysene               | 0.21  | 2.0  | 0.21   | U                             | ug/L  |              |       |                             |   |                  | 0    | 47.0                                  |  |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 0.14   |                               | ug/L  |              |       |                             |   |                  | 0    | 43.0                                  |  |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 0.13   | I                             | ug/L  |              |       |                             |   |                  | 0    | 43.0                                  |  |
| Benzo(a)pyrene         | 0.090 | 0.20 | 0.12   | I                             | ug/L  |              |       |                             |   |                  | 0    | 41.0                                  |  |
| Indeno(1,2,3-cd)pyrene | 0.047 | 0.20 | 0.11   | I                             | ug/L  |              |       |                             |   |                  | 0    | 45.0                                  |  |
| Dibenzo(a,h)anthracene | 0.057 | 0.20 | 0.070  | I                             | ug/L  |              |       |                             |   |                  | 0    | 45.0                                  |  |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 0.34   | U                             | ug/L  |              |       |                             |   |                  | 0    | 46.0                                  |  |
| Nitrobenzene-d5        |       |      | 86.0   |                               | %     | 100          | 86.0  | 24.0                        | - | 100              |      |                                       |  |
| 2-Fluorobiphenyl       |       |      | 86.3   |                               | %     | 100          | 86.3  | 31.0                        | - | 110              |      |                                       |  |
| p-Terphenyl-d14        |       |      | 99.7   |                               | %     | 100          | 99.7  | 45.0                        | - | 125              |      |                                       |  |

**Comments:**

Preparation Batch ID: WPROA102417

Analysis Method: FDEP FL-PRO

Preparation Type: 3510

Method Batch ID: MWPROA102417

Preparation Date: 10/24/2017 12:35:00 PM

| Analyte                             | MDL | PQL | Result | Qual                         | Units | Spike Amount | % REC | % REC Low Limit                 | - | % REC High Limit | %RPD | % RPD Limit                          |  |
|-------------------------------------|-----|-----|--------|------------------------------|-------|--------------|-------|---------------------------------|---|------------------|------|--------------------------------------|--|
| QA/QC Type: MB                      |     |     |        | Lab Sample ID: WPROA102417MB |       |              |       | Client Sample ID: WPROA102417MB |   |                  |      | Date Analyzed: 10/25/2017 5:31:00 PM |  |
| Total Recoverable Pet. Hydrocarbons | 76  | 500 | 76     | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Ortho-terphenyl                     |     |     | 113    |                              | %     | 100          | 113   | 82.0                            | - | 142              |      |                                      |  |
| Nonatriacontane(C39)                |     |     | 44.1   |                              | %     | 100          | 44.1  | 42.0                            | - | 193              |      |                                      |  |

|                 |  |  |  |                               |  |  |  |                                  |  |  |  |                                      |  |
|-----------------|--|--|--|-------------------------------|--|--|--|----------------------------------|--|--|--|--------------------------------------|--|
| QA/QC Type: LCS |  |  |  | Lab Sample ID: WPROA102417LCS |  |  |  | Client Sample ID: WPROA102417LCS |  |  |  | Date Analyzed: 10/25/2017 4:18:00 PM |  |
|-----------------|--|--|--|-------------------------------|--|--|--|----------------------------------|--|--|--|--------------------------------------|--|

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPROA102417  
Method Batch ID: MWPROA102417

Analysis Method: FDEP FL-PRO

Preparation Type: 3510  
Preparation Date: 10/24/2017 12:35:00 PM

| Analyte | MDL | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|

|                                     |                               |                                  |                                      |      |     |      |      |   |     |  |  |
|-------------------------------------|-------------------------------|----------------------------------|--------------------------------------|------|-----|------|------|---|-----|--|--|
| QA/QC Type: LCS                     | Lab Sample ID: WPROA102417LCS | Client Sample ID: WPROA102417LCS | Date Analyzed: 10/25/2017 4:18:00 PM |      |     |      |      |   |     |  |  |
| Total Recoverable Pet. Hydrocarbons | 76                            | 500                              | 832                                  | ug/L | 850 | 97.9 | 55.0 | - | 118 |  |  |
| Ortho-terphenyl                     |                               |                                  | 108                                  | %    | 100 | 108  | 82.0 | - | 142 |  |  |
| Nonatriacontane(C39)                |                               |                                  | 64.6                                 | %    | 100 | 64.6 | 42.0 | - | 193 |  |  |

|                                     |                                |                                   |                                      |      |     |      |      |   |     |     |      |
|-------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|------|-----|------|------|---|-----|-----|------|
| QA/QC Type: LCSD                    | Lab Sample ID: WPROA102417LCSD | Client Sample ID: WPROA102417LCSD | Date Analyzed: 10/25/2017 4:55:00 PM |      |     |      |      |   |     |     |      |
| Total Recoverable Pet. Hydrocarbons | 76                             | 500                               | 790                                  | ug/L | 850 | 92.9 | 55.0 | - | 118 | 5.2 | 20.0 |
| Ortho-terphenyl                     |                                |                                   | 110                                  | %    | 100 | 110  | 82.0 | - | 142 |     |      |
| Nonatriacontane(C39)                |                                |                                   | 107                                  | %    | 100 | 107  | 42.0 | - | 193 |     |      |

|                                     |                              |                            |                                      |      |     |      |      |   |     |  |  |
|-------------------------------------|------------------------------|----------------------------|--------------------------------------|------|-----|------|------|---|-----|--|--|
| QA/QC Type: MS                      | Lab Sample ID: WPROA102417MS | Client Sample ID: 220605MS | Date Analyzed: 10/26/2017 7:53:00 AM |      |     |      |      |   |     |  |  |
| Total Recoverable Pet. Hydrocarbons | 84                           | 550                        | 758                                  | ug/L | 935 | 81.1 | 41.0 | - | 101 |  |  |
| Ortho-terphenyl                     |                              |                            | 102                                  | %    | 100 | 102  | 82.0 | - | 142 |  |  |
| Nonatriacontane(C39)                |                              |                            | 141                                  | %    | 100 | 141  | 42.0 | - | 193 |  |  |

|                                     |                               |                             |                                      |      |     |      |      |   |     |     |      |
|-------------------------------------|-------------------------------|-----------------------------|--------------------------------------|------|-----|------|------|---|-----|-----|------|
| QA/QC Type: DUP                     | Lab Sample ID: WPROA102417DUP | Client Sample ID: 220611DUP | Date Analyzed: 10/26/2017 7:15:00 AM |      |     |      |      |   |     |     |      |
| Total Recoverable Pet. Hydrocarbons | 76                            | 500                         | 1500                                 | ug/L |     |      |      |   |     | 6.5 | 20.0 |
| Ortho-terphenyl                     |                               |                             | 128                                  | %    | 100 | 128  | 82.0 | - | 142 |     |      |
| Nonatriacontane(C39)                |                               |                             | 83.9                                 | %    | 100 | 83.9 | 42.0 | - | 193 |     |      |

### Comments:

Preparation Batch ID: WTMA102617  
Method Batch ID: MWTMA102617

Analysis Method: EPA 6010

Preparation Type: Digestion  
Preparation Date: 10/27/2017 9:26:00 AM

| Analyte | MDL | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|

|                |                             |                                |                                       |   |      |  |  |  |  |  |  |
|----------------|-----------------------------|--------------------------------|---------------------------------------|---|------|--|--|--|--|--|--|
| QA/QC Type: MB | Lab Sample ID: WTMA102617MB | Client Sample ID: WTMA102617MB | Date Analyzed: 10/27/2017 12:19:00 PM |   |      |  |  |  |  |  |  |
| Lead           | 1.9                         | 5.0                            | 1.9                                   | U | ug/L |  |  |  |  |  |  |

|                 |                              |                                 |                                       |      |     |      |      |   |     |  |  |
|-----------------|------------------------------|---------------------------------|---------------------------------------|------|-----|------|------|---|-----|--|--|
| QA/QC Type: LCS | Lab Sample ID: WTMA102617LCS | Client Sample ID: WTMA102617LCS | Date Analyzed: 10/27/2017 12:21:00 PM |      |     |      |      |   |     |  |  |
| Lead            | 1.9                          | 5.0                             | 392                                   | ug/L | 400 | 98.0 | 80.0 | - | 120 |  |  |

|                  |                               |                                  |                                       |
|------------------|-------------------------------|----------------------------------|---------------------------------------|
| QA/QC Type: LCSD | Lab Sample ID: WTMA102617LCSD | Client Sample ID: WTMA102617LCSD | Date Analyzed: 10/27/2017 12:23:00 PM |
|------------------|-------------------------------|----------------------------------|---------------------------------------|

**QUALITY ASSURANCE / QUALITY CONTROL DATA**



Preparation Batch ID: WTMA102617  
 Method Batch ID: MWTMA102617

Analysis Method: EPA 6010


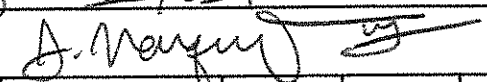
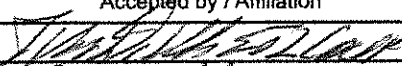


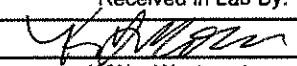
Preparation Type: Digestion  
 Preparation Date: 10/27/2017 9:26:00 AM

| Analyte          | MDL | PQL | Result | Qual                          | Units | Spike Amount | % REC | % REC Low Limit                  | - | % REC High Limit | %RPD | % RPD Limit                           |  |
|------------------|-----|-----|--------|-------------------------------|-------|--------------|-------|----------------------------------|---|------------------|------|---------------------------------------|--|
| QA/QC Type: LCSD |     |     |        | Lab Sample ID: WTMA102617LCSD |       |              |       | Client Sample ID: WTMA102617LCSD |   |                  |      | Date Analyzed: 10/27/2017 12:23:00 PM |  |
| Lead             | 1.9 | 5.0 | 391    |                               | ug/L  | 400          | 97.8  | 80.0                             | - | 120              | 0.26 | 20.0                                  |  |
| QA/QC Type: DUP  |     |     |        | Lab Sample ID: WTMA102617DUP  |       |              |       | Client Sample ID: 220601DUP      |   |                  |      | Date Analyzed: 10/27/2017 12:27:00 PM |  |
| Lead             | 1.9 | 5.0 | 2.5    | I                             | ug/L  |              |       |                                  |   |                  |      | 20.0                                  |  |

**Comments:**


South  
Pines

# Chain of Custody Record

| Company: <b>AET, LLC - 2</b>   |              | <b>Environmental Testing Laboratories, Inc.</b><br><br><small>ENVIRONMENTAL TESTING LABORATORIES, INC.</small><br><b>www.etl-inc.com</b> |                                  |                                     |   | Page <b>1</b> of <b>2</b>   |                 |   |               |  |   |   |                 |              |
|--|--------------|--|----------------------------------|-------------------------------------|---|---|-----------------|---|---------------|--|---|---|-----------------|--------------|
| Address: <b>4265 New Tampa Hwy</b>   |              |  |                                  |                                     |   | 412 W. Walcott Street<br>Thomasville, GA 31792-4359<br>229/228-2592 (telephone)<br>229/228-2594 (telefax) |                 | Project Name: <b>Dade County School Trunc</b>   |               |  |   |   |                 |              |
| Telephone Number: _____  |              | Telefax Number: _____  |                                  | Project Number: <b>26672-000000</b> |   | Project Manager: <b>A. Sanchez</b>  |                 |   |               |  |   |   |                 |              |
| Sampled by [Print Name(s)] / Affiliation<br><b>J. Marquez III, BIT</b>                                       |              |  |                                  | Analyses Requested                  |   |   |                 |   |               |  |   |   |                 |              |
| Sampler(s) Signature(s)<br> |              |  |                                  | SDB<br>8011<br>8025                 | EDU<br>8260   | PR<br>6010  | BTEXM<br>8024   | PAH<br>8470   | TRPH<br>PUPRO | REQUESTED DUE DATE<br><b>STD 1/24/17</b> |   |   |                 |              |
| Item No.   | Field ID No. | Sample   |                                  | Grab or Composite                   | Matrix (see Codes)  | Number of Containers  |                 |   |               |  |   |   | Remarks         | Lab Number   |
|  |              | Date   | Time                             |                                     |   |   |                 |   |               |  |   |   |                 |              |
|  | MW-10        | 10/17  | 1238                             | G                                   | GW  | 5   |                 |   |               | X  | X   | X   |                 | 220610       |
|  | MW-11        | "  | 1337                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 611          |
|  | MW-12        | "  | 1441                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 612          |
|  | MW-3         | "  | 1548                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 613          |
|  | MW-4         | "  | 1712                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 614          |
|  | MW-13        | "  | 1745                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 615          |
|  | MW-5         | "  | 1822                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 616          |
|  | MW-6         | "  | 1900                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 617          |
|  | MW-8         | "  | 1942                             | "                                   | "   | 5   |                 |   |               | "  | "   | "   |                 | 618          |
| Shipment Method  |              |  |                                  | Total Number of Containers          |   |   |                 |   |               |  |   | ← Preservatives (see Codes) ICE: <input type="checkbox"/> Yes <input type="checkbox"/> No |                 |              |
| Out:   | / /          | Via:   | Item No.                         |                                     | Relinquished by / Affiliation   |   | Date            |   | Time          |  | Accepted by / Affiliation   |   | Date            | Time         |
| Returned:  | / /          | Via:   |                                  |                                     | <b>J. Marquez III, BIT / AET</b>  |   | <b>10/24/17</b> |   | <b>0730</b>   |  |  |   | <b>10/24/17</b> | <b>0730</b>  |
| Additional Comments:   |              |  |                                  |                                     |  |   | <b>10/24/17</b> |   | <b>12:35</b>  |  |  |   | <b>10/24/17</b> | <b>10:20</b> |
| Cooler Number(s) / Temperature(s) (°C)   |              |  |                                  | Sampling Kit Number                 |   |   |                 | Received in Lab By:   |               |  |   |   |                 |              |
| <b>3 on ice @ 3.5/4.6/5.5</b>  |              |  |                                  |                                     |   |   |                 |  |               |  |   |   |                 |              |
| MATRIX CODES:  |              | A = Air  | GW = Groundwater                 | SE = Sediment                       | SO = Soil   | SW = Surface Water  | WW = Wastewater | O = Other (specify)   |               |  |   |   |                 |              |
| PRESERVATIVE CODES:  |              | H = Hydrochloric acid  | S = Sulfuric acid                | N = Nitric                          | Na = Sodium Hydroxide   | O = Other (specify)   |                 |   |               |  |   |   |                 |              |
| PRESERVATIVE CODES:  |              | SOIL VOCS  | MS = Methanol / Sodium Bisulfate | MD = Methanol / DI Water            |   |   |                 |   |               |  |   |   |                 |              |
| ETL PROJECT NO. <b>17-3399</b>   |              |  |                                  |                                     |   |   |                 |   |               |  | Page 58 of 64   |   |                 |              |

South Lakes

# Chain of Custody Record

|   |              |   |          |   |                                  |  |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--------------|---|----------|---|----------------------------------|--|-------------|-----------------------------------|---------------------------|----------------|-------|-----|------|-------|-------|-----|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| Company: <b>AET, LLC - L</b>  |              | <b>Environmental Testing Laboratories, Inc.</b><br><br>412 W. Walcott Street<br>Thomasville, GA 31792-4359<br>229/228-2592 (telephone)<br>229/228-2594 (telefax)<br>www.etl-inc.com |          |   |                                  | Page <b>2</b> of <b>2</b>  |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Address: <b>4265 New Tampa Hwy</b>  |              |   |          |   |                                  | Project Name: <b>Dade County School Board Ta</b>   |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Telephone Number: _____   |              | Telefax Number: _____   |          | Project Number: <b>26672-02 (02)</b>  |                                  | Project Manager: <b>A. Sanchez</b>   |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Sampled by [Print Name(s)] / Affiliation<br><b>J. Marquez III, BIT</b>  |              |   |          | <b>Analyses Requested</b><br><table border="1" style="width:100%; text-align: center;"> <tr> <td>EDS</td> <td>1108</td> <td>EDL</td> <td>8760</td> <td>Pb</td> <td>6010</td> <td>MSXAS</td> <td>8021</td> <td>PAH</td> <td>8070</td> <td>TRPH</td> <td>FLPTO</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |                                  |  |             | EDS                               | 1108                      | EDL            | 8760  | Pb  | 6010 | MSXAS | 8021  | PAH | 8070 | TRPH | FLPTO |  |  |  |  |  |  |  |  |  |  |  |  |
| EDS   | 1108         | EDL   | 8760     |   |                                  |  |             | Pb                                | 6010                      | MSXAS          | 8021  | PAH | 8070 | TRPH  | FLPTO |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   |              |   |          |   |                                  |  |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Sampler(s) Signature(s)<br><i>J. Marquez III</i>  |              |   |          | Facility ID Number: <b>1318628726</b>   |                                  |  |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   |              |   |          | REQUESTED DUE DATE  |                                  |  |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   |              |   |          | STD TAT   |                                  |  |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Item No.  | Field ID No. | Sample<br>Date      Time  |          | Grab or Composite   | Matrix (see Codes)               | Number of Containers   | Remarks     | Lab Number                        |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   | MW-A         | 10/18/17  | 0841     | G   | GW                               | 5  |             | 220619                            |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   | MW-9         | "   | 0917     | "   | "                                | "  |             | 620                               |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   | MW-3         | "   | 1017     | "   | "                                | 11   | X X X X X X | 621                               |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   | MW-1         | "   | 1127     | "   | "                                | "  | X " " " "   | 622                               |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   | MW-7         | "   | 1232     | "   | "                                | "  | " " " " "   | 623                               |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipment Method   |              |   |          | Total Number of Containers  |                                  | ← Preservatives (see Codes) ICE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Out:  | / /          | Via:  | Item No. |   | Relinquished by / Affiliation    |  | Date        | Time                              | Accepted by / Affiliation | Date           | Time  |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Returned:   | / /          | Via:  |          |   | <i>J. Marquez III, BIT / AET</i> |  | 10/24/17    | 0730                              | <i>[Signature]</i>        | 10/24/17       | 0720  |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Additional Comments:  |              |   |          |   | <i>[Signature]</i>               |  | 10/24/17    | 1020                              | <i>[Signature]</i>        | 10/24/17       | 1020  |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
|   |              |   |          |   | <i>[Signature]</i>               |  | 10/24/17    | 12:35                             | <i>[Signature]</i>        | 10/24/17       | 12:35 |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Cooler Number(s) / Temperature(s) (°C)  |              |   |          | Sampling Kit Number   |                                  |  |             | Received in Lab By:               |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 / 120 / 3.5 / 4.6 / 5.5   |              |   |          |   |                                  |  |             | <i>[Signature]</i> 10/24/17 12:35 |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| MATRIX CODES:    A = Air    GW = Groundwater    SE = Sediment    SO = Soil    SW = Surface Water    WW = Wastewater    O = Other (specify)<br>PRESERVATIVE CODES:    H = Hydrochloric acid    S = Sulfuric acid    N = Nitric    Na = Sodium Hydroxide    O = Other (specify)<br>PRESERVATIVE CODES:    SOIL VOCS    MS = Methanol / Sodium Bisulfate    MD = Methanol / DI Water |              |   |          |   |                                  |  |             |                                   |                           |                |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |
| ETL PROJECT NO.   |              |   |          |   |                                  |  |             |                                   |                           | <b>17-3399</b> |       |     |      |       |       |     |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |

**Project Details**

Client: ADVANCED ENVIRONMENTAL TECHNOLOGIES

Project Name: DADE CNTY SCHOOL BD-TRANSPORTATION

**Shipping and Receiving**

Date/Time Received: 10/24/2017 12:35:00 PM      If present, were cooler custody seals intact?

Sampling Personnel: J MARQUEZ       Yes    No    N/A

Shipping Method: Laboratory Courier      If present, were sample bottle custody seals intact?

Shipping Tracking Number:       Yes    No    N/A

**Thermal Preservation**

Cooler Temp Method: Sample Temperature      Were cooler temperatures in compliance? (0.1-6.0C)

Thermometer ID: 160372413       Yes    No    N/A

Number of Coolers: 3      Cooler Temperatures: 3.5/4.6/5.5

**Chain of Custody**

Was the chain-of-custody received in coolers?       Yes    No    N/A

Was the chain-of-custody signed and properly relinquished?       Yes    No    N/A

Does the chain-of-custody agree with samples and analyses?       Yes    No    N/A

**Container Receipt**

Were samples received in appropriate bottleware for analyses?       Yes    No    N/A

Was sufficient volume submitted for analyses requested?       Yes    No    N/A

Were samples received within method holding times?       Yes    No    N/A

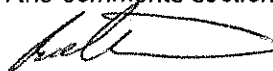
Were VOA vials received with zero headspace?       Yes    No    N/A

Were aqueous samples received at an acceptable pH?       Yes    No    N/A

pH Test Strip Lot: HC689794

**Comments**

*I certify I have answered the questions contained herein to the best of my knowledge and have affixed labels with unique IDs onto each sample container received. I certify any discrepancies regarding the samples as received by the laboratory have been documented completely in the comments section of this form.*



Brad Williams

**Project Sample Detail**

| Lab Sample ID          | Client Sample ID | Matrix                     | SPLP                     | TRPH<br>Speciation       | MaVPH<br>MaEPH           |
|------------------------|------------------|----------------------------|--------------------------|--------------------------|--------------------------|
| <b>220610</b>          | <b>MW-10</b>     | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220610-A1 (BTEXM)      |                  |                            |                          |                          |                          |
| 220610-A2 (BTEXM)      |                  |                            |                          |                          |                          |
| 220610-A3 (BTEXM)      |                  |                            |                          |                          |                          |
| 220610-B1 (PAH)        |                  |                            |                          |                          |                          |
| 220610-B2 (TRPH)       |                  |                            |                          |                          |                          |
| <b>220611</b>          | <b>MW-11</b>     | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220611-A1 (BTEXM)      |                  |                            |                          |                          |                          |
| 220611-A2 (BTEXM)      |                  |                            |                          |                          |                          |
| 220611-A3 (BTEXM)      |                  |                            |                          |                          |                          |
| 220611-B3 (PAH)        |                  |                            |                          |                          |                          |
| 220611-B4 (PAH) [Dup]  |                  |                            |                          |                          |                          |
| 220611-B5 (TRPH)       |                  |                            |                          |                          |                          |
| 220611-B6 (TRPH) [Dup] |                  |                            |                          |                          |                          |
| <b>220612</b>          | <b>MW-12</b>     | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220612-A1 (BTEXM)      |                  |                            |                          |                          |                          |
| 220612-A2 (BTEXM)      |                  |                            |                          |                          |                          |
| 220612-A3 (BTEXM)      |                  |                            |                          |                          |                          |
| 220612-B1 (PAH)        |                  |                            |                          |                          |                          |
| 220612-B2 (TRPH)       |                  |                            |                          |                          |                          |
| <b>220613</b>          | <b>MW-2</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220613-A1 (BTEXM)      |                  |                            |                          |                          |                          |
| 220613-A2 (BTEXM)      |                  |                            |                          |                          |                          |
| 220613-A3 (BTEXM)      |                  |                            |                          |                          |                          |
| 220613-B1 (PAH)        |                  |                            |                          |                          |                          |
| 220613-B2 (TRPH)       |                  |                            |                          |                          |                          |
| <b>220614</b>          | <b>MW-4</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220614-A1 (BTEXM)      |                  |                            |                          |                          |                          |
| 220614-A2 (BTEXM)      |                  |                            |                          |                          |                          |
| 220614-A3 (BTEXM)      |                  |                            |                          |                          |                          |
| 220614-B1 (PAH)        |                  |                            |                          |                          |                          |
| 220614-B2 (TRPH)       |                  |                            |                          |                          |                          |
| <b>220615</b>          | <b>MW-13</b>     | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220615-A1 (BTEXM)      |                  |                            |                          |                          |                          |
| 220615-A2 (BTEXM)      |                  |                            |                          |                          |                          |
| 220615-A3 (BTEXM)      |                  |                            |                          |                          |                          |

**Project Sample Detail**

| Lab Sample ID  | Client Sample ID | Matrix                     | SPLP                     | TRPH<br>Speciation       | MaVPH<br>MaEPH           |
|--|------------------|----------------------------|--------------------------|--------------------------|--------------------------|
| 220615-B1 (PAH)<br>220615-B2 (TRPH)  |                  |                            |                          |                          |                          |
| <b>220616</b>  | <b>MW-5</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220616-A1 (BTEXM)<br>220616-A2 (BTEXM)<br>220616-A3 (BTEXM)<br>220616-B1 (PAH)<br>220616-B2 (TRPH) |                  |                            |                          |                          |                          |
| <b>220617</b>  | <b>MW-6</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220617-A1 (BTEXM)<br>220617-A2 (BTEXM)<br>220617-A3 (BTEXM)<br>220617-B1 (PAH)<br>220617-B2 (TRPH) |                  |                            |                          |                          |                          |
| <b>220618</b>  | <b>MW-8</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220618-A1 (BTEXM)<br>220618-A2 (BTEXM)<br>220618-A3 (BTEXM)<br>220618-B1 (PAH)<br>220618-B2 (TRPH) |                  |                            |                          |                          |                          |
| <b>220619</b>  | <b>MW-A</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220619-A1 (BTEXM)<br>220619-A2 (BTEXM)<br>220619-A3 (BTEXM)<br>220619-B1 (PAH)<br>220619-B2 (TRPH) |                  |                            |                          |                          |                          |
| <b>220620</b>  | <b>MW-9</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220620-A1 (BTEXM)<br>220620-A2 (BTEXM)<br>220620-A3 (BTEXM)<br>220620-B1 (PAH)<br>220620-B2 (TRPH) |                  |                            |                          |                          |                          |
| <b>220621</b>  | <b>MW-3</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220621-A1 (BTEXM)<br>220621-A2 (BTEXM)   |                  |                            |                          |                          |                          |

Project Sample Detail

| Lab Sample ID     | Client Sample ID | Matrix                     | SPLP                     | TRPH Speciation          | MaVPH<br>MaEPH           |
|-------------------|------------------|----------------------------|--------------------------|--------------------------|--------------------------|
| 220621-A3 (BTEXM) |                  |                            |                          |                          |                          |
| 220621-A4 (EDB)   |                  |                            |                          |                          |                          |
| 220621-A5 (EDB)   |                  |                            |                          |                          |                          |
| 220621-A6 (EDC)   |                  |                            |                          |                          |                          |
| 220621-A7 (EDC)   |                  |                            |                          |                          |                          |
| 220621-A8 (EDC)   |                  |                            |                          |                          |                          |
| 220621-B1 (PAH)   |                  |                            |                          |                          |                          |
| 220621-B2 (TRPH)  |                  |                            |                          |                          |                          |
| 220621-C1 (Pb)    |                  |                            |                          |                          |                          |
| <hr/>             |                  |                            |                          |                          |                          |
| <b>220622</b>     | <b>MW-1</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220622-A1 (BTEXM) |                  |                            |                          |                          |                          |
| 220622-A2 (BTEXM) |                  |                            |                          |                          |                          |
| 220622-A3 (BTEXM) |                  |                            |                          |                          |                          |
| 220622-A4 (EDB)   |                  |                            |                          |                          |                          |
| 220622-A5 (EDB)   |                  |                            |                          |                          |                          |
| 220622-A6 (EDC)   |                  |                            |                          |                          |                          |
| 220622-A7 (EDC)   |                  |                            |                          |                          |                          |
| 220622-A8 (EDC)   |                  |                            |                          |                          |                          |
| 220622-B1 (PAH)   |                  |                            |                          |                          |                          |
| 220622-B2 (TRPH)  |                  |                            |                          |                          |                          |
| 220622-C1 (Pb)    |                  |                            |                          |                          |                          |
| <hr/>             |                  |                            |                          |                          |                          |
| <b>220623</b>     | <b>MW-7</b>      | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 220623-A1 (BTEXM) |                  |                            |                          |                          |                          |
| 220623-A2 (BTEXM) |                  |                            |                          |                          |                          |
| 220623-A3 (BTEXM) |                  |                            |                          |                          |                          |
| 220623-A4 (EDB)   |                  |                            |                          |                          |                          |
| 220623-A5 (EDB)   |                  |                            |                          |                          |                          |
| 220623-A6 (EDC)   |                  |                            |                          |                          |                          |
| 220623-A7 (EDC)   |                  |                            |                          |                          |                          |
| 220623-A8 (EDC)   |                  |                            |                          |                          |                          |
| 220623-B1 (PAH)   |                  |                            |                          |                          |                          |
| 220623-B2 (TRPH)  |                  |                            |                          |                          |                          |
| 220623-C1 (Pb)    |                  |                            |                          |                          |                          |

**Project Bottle Count Summary**

| Container Type  | Preservative | Number of Containers |
|-----------------|--------------|----------------------|
| 1-L Amber Glass | H2SO4        | 15                   |
| 1-L Amber Glass | NONE         | 15                   |
| 40mL VOA Vial   | HCL          | 51                   |
| 40mL VOA Vial   | NONE         | 6                    |
| HDPE Plastic    | HNO3         | 3                    |
| Total           |              | 90                   |

# **FINAL** **ANALYTICAL REPORT**

ETL PROJECT ID: 17-3517

11/7/2017 - Revision 0

ANDRES SANCHEZ  
ADVANCED ENVIRONMENTAL TECHNOLOGIES  
4265 NEW TAMPA HIGHWAY  
LAKELAND, FL 33815  
TEL: (863) 619-9708  
FAX: (863) 619-7467

CLIENT PROJECT NAME: DADE CNTY SCHOOL BD-TRANSPORTATION  
CLIENT PROJECT ID: 26672  
FACILITY ID: 13/8628726

Enclosed are the analytical results for sample(s) received by Environmental Testing Laboratories on November 02, 2017. Results reported herein are reported on an as received basis and conform to current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Sample analyses performed by Environmental Testing Laboratories, Inc. (ETL) unless otherwise noted. ETL is accredited through NELAC and the Florida Department of Health, Certification #E87684. Scope of analyses: RCRA/CERCLA Metals, General Chemistry, Extractable Organics, and Volatile Organics. Effective Dates: February 14, 2002 through June 30, 2018.

This report shall not be reproduced, except in full, without the written consent of Environmental Testing Laboratories, Inc. This report has been signed and authorized by the signatory using an electronic signature and is intended to be the legally binding equivalent of a traditionally handwritten signature.

Authorized for release by:



ENVIRONMENTAL TESTING LABORATORIES INC

412 W. Walcott Street | Thomasville, GA 31792 | Phone: (229)-228-2592 | Fax: (229)-228-2594

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## Laboratory Qualifiers

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- ! Data deviate from historically established concentration ranges.
- # Surrogate compound inadvertently omitted.
- \$ Due to dilution, surrogate compound was not detected.
- \* Not reported due to interference
- ? Data are rejected as should not be used.
- A Value reported is the arithmetic mean (average) of two or more determinations.
- B Results based upon colony counts outside the acceptable range.
- D Measurement made in the field.
- E Extra samples were taken at composite stations.
- F When reporting species, F indicates the female sex.
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J Estimated value.
- K Off-scale low. Actual value is known to be less than the value given.
- L Off-scale high. Actual value is known to be greater than the value given.
- M Presence of material is verified but not quantified; the actual value is less than the value given.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed.
- Q Sample held beyond the accepted holding time.
- R Significant rain in the past 48 hours.
- S1 Surrogate recovery reported is outside of laboratory established QA/QC Limits
- S2 Analyte recovery reported is outside of laboratory established QA/QC Limits
- S3 Analyte precision reported is outside of laboratory established QA/QC Limits
- T Value reported is less than the laboratory method detection limit.
- U Compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y Laboratory analysis was from an improperly preserved sample. Data may not be accurate.
- Z Too many colonies were present; numeric value represents the filtration volume.

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## Project Narrative

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Environmental Testing Laboratories, Inc. is accredited through NELAC and the Florida Department of Health.



Solid samples are reported on a dry weight basis unless otherwise noted.



Please refer to Section 4.0 of the ETL Quality Assurance Manual for a measure of uncertainty.



All analyses are performed using EPA or FL-DEP methods and certified to meet NELAC requirements, except where noted.



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## Analytical Method Summary

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E87684 Environmental Testing Laboratories Inc.  
412 W. Walcott Street, Thomasville, GA 31792  
(229) 228-2592

Semivolatiles low level for PAH only (EPA 8270/PAH Low Level)

GC/FID (FDEP FL-PRO)

Florida Department of Environmental Protection

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## Sample Summary

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| Laboratory Sample ID | Client Sample ID | Matrix              | End Date / Time Sampled | Grab / Composite | Percent Moisture |
|----------------------|------------------|---------------------|-------------------------|------------------|------------------|
| 221063               | MW-10            | AQUEOUS-Groundwater | 10/31/2017 12:24        | G                |                  |
| 221064               | MW-12            | AQUEOUS-Groundwater | 10/31/2017 12:51        | G                |                  |
| 221065               | MW-11            | AQUEOUS-Groundwater | 10/31/2017 13:37        | G                |                  |

## Executive Summary

| Analyte                             | Analytical Method      | Result | Units | Qualifiers | Result Comments |
|-------------------------------------|------------------------|--------|-------|------------|-----------------|
| <b>MW-10 (221063)</b>               |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 2.3    | ug/L  |            |                 |
| 2-Methylnaphthalene                 | EPA 8270/PAH Low Level | 0.89   | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 0.60   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 1.3    | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.57   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 1100   | ug/L  |            |                 |
| <b>MW-12 (221064)</b>               |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 1.8    | ug/L  |            |                 |
| 2-Methylnaphthalene                 | EPA 8270/PAH Low Level | 0.93   | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 0.60   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 1.2    | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 0.58   | ug/L  |            |                 |
| Phenanthrene                        | EPA 8270/PAH Low Level | 0.74   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 1100   | ug/L  |            |                 |
| <b>MW-11 (221065)</b>               |                        |        |       |            |                 |
| 1-Methylnaphthalene                 | EPA 8270/PAH Low Level | 2.9    | ug/L  |            |                 |
| 2-Methylnaphthalene                 | EPA 8270/PAH Low Level | 2.8    | ug/L  |            |                 |
| Acenaphthene                        | EPA 8270/PAH Low Level | 1.1    | ug/L  |            |                 |
| Acenaphthylene                      | EPA 8270/PAH Low Level | 0.24   | ug/L  |            |                 |
| Fluorene                            | EPA 8270/PAH Low Level | 2.3    | ug/L  |            |                 |
| Naphthalene                         | EPA 8270/PAH Low Level | 1.1    | ug/L  |            |                 |
| Phenanthrene                        | EPA 8270/PAH Low Level | 1.3    | ug/L  |            |                 |
| Pyrene                              | EPA 8270/PAH Low Level | 0.25   | ug/L  |            |                 |
| Total Recoverable Pet. Hydrocarbons | FDEP FL-PRO            | 8300   | ug/L  |            |                 |

# Analytical Data

Client Sample ID: MW-10

Laboratory Sample ID: 221063

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/31/2017 12:24 PM

Percent Moisture:

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date         |
|------------------------|-----|------------|-----------|-------|------------|------|-----------------------|
| 1-Methylnaphthalene    | 1.0 | 2.3        |           | ug/L  | 0.21       | 2.0  | 11/7/2017 12:19:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.89       | I         | ug/L  | 0.21       | 2.0  | 11/7/2017 12:19:00 AM |
| Acenaphthene           | 1.0 | 0.60       | I         | ug/L  | 0.26       | 2.0  | 11/7/2017 12:19:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 11/7/2017 12:19:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 11/7/2017 12:19:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 11/7/2017 12:19:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 11/7/2017 12:19:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 11/7/2017 12:19:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 11/7/2017 12:19:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 11/7/2017 12:19:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 11/7/2017 12:19:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 11/7/2017 12:19:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 11/7/2017 12:19:00 AM |
| Fluorene               | 1.0 | 1.3        | I         | ug/L  | 0.16       | 2.0  | 11/7/2017 12:19:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 11/7/2017 12:19:00 AM |
| Naphthalene            | 1.0 | 0.57       | I         | ug/L  | 0.13       | 2.0  | 11/7/2017 12:19:00 AM |
| Phenanthrene           | 1.0 | 0.26       | U         | ug/L  | 0.26       | 2.0  | 11/7/2017 12:19:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 11/7/2017 12:19:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date         |
| 2-Fluorobiphenyl       | 1.0 | 102        |           |       | 31% - 110% |      | 11/7/2017 12:19:00 AM |
| Nitrobenzene-d5        | 1.0 | 87.5       |           |       | 24% - 100% |      | 11/7/2017 12:19:00 AM |
| p-Terphenyl-d14        | 1.0 | 75.6       |           |       | 45% - 125% |      | 11/7/2017 12:19:00 AM |

Analytical Method: FDEP FL-PRO  
GC/FID

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date        |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.1 | 1100       |           | ug/L  | 84         | 550 | 11/7/2017 8:54:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date        |
| Nonatriacontane(C39)                | 1.1 | 69.5       |           |       | 42% - 193% |     | 11/7/2017 8:54:00 AM |
| Ortho-terphenyl                     | 1.1 | 109        |           |       | 82% - 142% |     | 11/7/2017 8:54:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-12

Laboratory Sample ID: 221064

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/31/2017 12:51 PM

Percent Moisture:

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date        |
|------------------------|-----|------------|-----------|-------|------------|------|----------------------|
| 1-Methylnaphthalene    | 1.0 | 1.8        | I         | ug/L  | 0.21       | 2.0  | 11/7/2017 3:21:00 AM |
| 2-Methylnaphthalene    | 1.0 | 0.93       | I         | ug/L  | 0.21       | 2.0  | 11/7/2017 3:21:00 AM |
| Acenaphthene           | 1.0 | 0.60       | I         | ug/L  | 0.26       | 2.0  | 11/7/2017 3:21:00 AM |
| Acenaphthylene         | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 11/7/2017 3:21:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 11/7/2017 3:21:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 11/7/2017 3:21:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 11/7/2017 3:21:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 11/7/2017 3:21:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 11/7/2017 3:21:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 11/7/2017 3:21:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 11/7/2017 3:21:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 11/7/2017 3:21:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 11/7/2017 3:21:00 AM |
| Fluorene               | 1.0 | 1.2        | I         | ug/L  | 0.16       | 2.0  | 11/7/2017 3:21:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 11/7/2017 3:21:00 AM |
| Naphthalene            | 1.0 | 0.58       | I         | ug/L  | 0.13       | 2.0  | 11/7/2017 3:21:00 AM |
| Phenanthrene           | 1.0 | 0.74       | I         | ug/L  | 0.26       | 2.0  | 11/7/2017 3:21:00 AM |
| Pyrene                 | 1.0 | 0.18       | U         | ug/L  | 0.18       | 2.0  | 11/7/2017 3:21:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date        |
| 2-Fluorobiphenyl       | 1.0 | 101        |           |       | 31% - 110% |      | 11/7/2017 3:21:00 AM |
| Nitrobenzene-d5        | 1.0 | 89.3       |           |       | 24% - 100% |      | 11/7/2017 3:21:00 AM |
| p-Terphenyl-d14        | 1.0 | 94.4       |           |       | 45% - 125% |      | 11/7/2017 3:21:00 AM |

Analytical Method: FDEP FL-PRO  
GC/FID

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date        |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.1 | 1100       |           | ug/L  | 84         | 550 | 11/7/2017 9:32:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date        |
| Nonatriacontane(C39)                | 1.1 | 76.4       |           |       | 42% - 193% |     | 11/7/2017 9:32:00 AM |
| Ortho-terphenyl                     | 1.1 | 115        |           |       | 82% - 142% |     | 11/7/2017 9:32:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor

# Analytical Data

Client Sample ID: MW-11

Laboratory Sample ID: 221065

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/31/2017 01:37 PM

Percent Moisture:

Analytical Method: EPA 8270/PAH Low Level  
Semivolatiles low level for PAH only

| Analyte                | DF  | Result     | Qualifier | Units | MDL        | PQL  | Analysis Date        |
|------------------------|-----|------------|-----------|-------|------------|------|----------------------|
| 1-Methylnaphthalene    | 1.0 | 2.9        |           | ug/L  | 0.21       | 2.0  | 11/7/2017 3:58:00 AM |
| 2-Methylnaphthalene    | 1.0 | 2.8        |           | ug/L  | 0.21       | 2.0  | 11/7/2017 3:58:00 AM |
| Acenaphthene           | 1.0 | 1.1        | I         | ug/L  | 0.26       | 2.0  | 11/7/2017 3:58:00 AM |
| Acenaphthylene         | 1.0 | 0.24       | I         | ug/L  | 0.19       | 2.0  | 11/7/2017 3:58:00 AM |
| Anthracene             | 1.0 | 0.19       | U         | ug/L  | 0.19       | 2.0  | 11/7/2017 3:58:00 AM |
| Benzo(a)anthracene     | 1.0 | 0.10       | U         | ug/L  | 0.10       | 0.20 | 11/7/2017 3:58:00 AM |
| Benzo(a)pyrene         | 1.0 | 0.090      | U         | ug/L  | 0.090      | 0.20 | 11/7/2017 3:58:00 AM |
| Benzo(b)fluoranthene   | 1.0 | 0.088      | U         | ug/L  | 0.088      | 0.10 | 11/7/2017 3:58:00 AM |
| Benzo(g,h,i)perylene   | 1.0 | 0.34       | U         | ug/L  | 0.34       | 2.0  | 11/7/2017 3:58:00 AM |
| Benzo(k)fluoranthene   | 1.0 | 0.083      | U         | ug/L  | 0.083      | 0.20 | 11/7/2017 3:58:00 AM |
| Chrysene               | 1.0 | 0.21       | U         | ug/L  | 0.21       | 2.0  | 11/7/2017 3:58:00 AM |
| Dibenzo(a,h)anthracene | 1.0 | 0.057      | U         | ug/L  | 0.057      | 0.20 | 11/7/2017 3:58:00 AM |
| Fluoranthene           | 1.0 | 0.17       | U         | ug/L  | 0.17       | 2.0  | 11/7/2017 3:58:00 AM |
| Fluorene               | 1.0 | 2.3        |           | ug/L  | 0.16       | 2.0  | 11/7/2017 3:58:00 AM |
| Indeno(1,2,3-cd)pyrene | 1.0 | 0.047      | U         | ug/L  | 0.047      | 0.20 | 11/7/2017 3:58:00 AM |
| Naphthalene            | 1.0 | 1.1        | I         | ug/L  | 0.13       | 2.0  | 11/7/2017 3:58:00 AM |
| Phenanthrene           | 1.0 | 1.3        | I         | ug/L  | 0.26       | 2.0  | 11/7/2017 3:58:00 AM |
| Pyrene                 | 1.0 | 0.25       | I         | ug/L  | 0.18       | 2.0  | 11/7/2017 3:58:00 AM |
| Surrogate              | DF  | % Recovery | Qualifier | Units | Limits     |      | Analysis Date        |
| 2-Fluorobiphenyl       | 1.0 | 100        |           |       | 31% - 110% |      | 11/7/2017 3:58:00 AM |
| Nitrobenzene-d5        | 1.0 | 90.1       |           |       | 24% - 100% |      | 11/7/2017 3:58:00 AM |
| p-Terphenyl-d14        | 1.0 | 98.6       |           |       | 45% - 125% |      | 11/7/2017 3:58:00 AM |

Analytical Method: FDEP FL-PRO  
GC/FID

| Analyte                             | DF  | Result     | Qualifier | Units | MDL        | PQL | Analysis Date         |
|-------------------------------------|-----|------------|-----------|-------|------------|-----|-----------------------|
| Total Recoverable Pet. Hydrocarbons | 1.0 | 8300       |           | ug/L  | 76         | 500 | 11/7/2017 10:12:00 AM |
| Surrogate                           | DF  | % Recovery | Qualifier | Units | Limits     |     | Analysis Date         |
| Nonatriacontane(C39)                | 1.0 | 120        |           |       | 42% - 193% |     | 11/7/2017 10:12:00 AM |
| Ortho-terphenyl                     | 1.0 | 112        |           |       | 82% - 142% |     | 11/7/2017 10:12:00 AM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



## Data Chronicle

Client Sample ID: MW-10

Laboratory Sample ID: 221063

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/31/2017 12:24 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared              | Analyzed              | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|-----------------------|-----------------------|---------|--------|
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA110617 | 11/6/2017 8:30:00 AM  | 11/7/2017 12:19:00 AM | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.1      | WPROA110617 | 11/6/2017 10:00:00 AM | 11/7/2017 8:54:00 AM  | BW      | E87684 |

Client Sample ID: MW-12

Laboratory Sample ID: 221064

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/31/2017 12:51 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared              | Analyzed             | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|-----------------------|----------------------|---------|--------|
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA110617 | 11/6/2017 8:30:00 AM  | 11/7/2017 3:21:00 AM | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.1      | WPROA110617 | 11/6/2017 10:00:00 AM | 11/7/2017 9:32:00 AM | BW      | E87684 |

Client Sample ID: MW-11

Laboratory Sample ID: 221065

Sample Location:

Matrix: AQUEOUS-Groundwater

Date Collected: 10/31/2017 01:37 PM

Percent Moisture:

| Prep | Analysis | Analytical Method      | Dilution | Batch       | Prepared              | Analyzed              | Analyst | Lab    |
|------|----------|------------------------|----------|-------------|-----------------------|-----------------------|---------|--------|
| TOT  | RES      | EPA 8270/PAH Low Level | 1.0      | WPAHA110617 | 11/6/2017 8:30:00 AM  | 11/7/2017 3:58:00 AM  | BW      | E87684 |
| TOT  | RES      | FDEP FL-PRO            | 1.0      | WPROA110617 | 11/6/2017 10:00:00 AM | 11/7/2017 10:12:00 AM | BW      | E87684 |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPAHA110617

Analysis Method: EPA 8270/PAH Low Level

Preparation Type: 3510

Method Batch ID: MWPAHA110617

Preparation Date: 11/6/2017 8:30:00 AM

| Analyte  | MDL   | PQL  | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | % REC High Limit | %RPD | % RPD Limit |
|--|-------|------|--------|------|-------|--------------|-------|-----------------|------------------|------|-------------|
| QA/QC Type: MB      Lab Sample ID: WPAHA110617MB      Client Sample ID: WPAHA110617MB      Date Analyzed: 11/6/2017 5:33:00 PM |       |      |        |      |       |              |       |                 |                  |      |             |
| Naphthalene  | 0.13  | 2.0  | 0.13   | U    | ug/L  |              |       |                 |                  |      |             |
| Acenaphthylene   | 0.19  | 2.0  | 0.19   | U    | ug/L  |              |       |                 |                  |      |             |
| Acenaphthene   | 0.26  | 2.0  | 0.26   | U    | ug/L  |              |       |                 |                  |      |             |
| Fluorene   | 0.16  | 2.0  | 0.16   | U    | ug/L  |              |       |                 |                  |      |             |
| Phenanthrene   | 0.26  | 2.0  | 0.26   | U    | ug/L  |              |       |                 |                  |      |             |
| Anthracene   | 0.19  | 2.0  | 0.19   | U    | ug/L  |              |       |                 |                  |      |             |
| Fluoranthene   | 0.17  | 2.0  | 0.17   | U    | ug/L  |              |       |                 |                  |      |             |
| 1-Methylnaphthalene  | 0.21  | 2.0  | 0.21   | U    | ug/L  |              |       |                 |                  |      |             |
| 2-Methylnaphthalene  | 0.21  | 2.0  | 0.21   | U    | ug/L  |              |       |                 |                  |      |             |
| Pyrene   | 0.18  | 2.0  | 0.18   | U    | ug/L  |              |       |                 |                  |      |             |
| Benzo(a)anthracene   | 0.10  | 0.20 | 0.10   | U    | ug/L  |              |       |                 |                  |      |             |
| Chrysene   | 0.21  | 2.0  | 0.21   | U    | ug/L  |              |       |                 |                  |      |             |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 0.088  | U    | ug/L  |              |       |                 |                  |      |             |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 0.083  | U    | ug/L  |              |       |                 |                  |      |             |
| Benzo(a)pyrene   | 0.090 | 0.20 | 0.090  | U    | ug/L  |              |       |                 |                  |      |             |
| Indeno(1,2,3-cd)pyrene   | 0.047 | 0.20 | 0.047  | U    | ug/L  |              |       |                 |                  |      |             |
| Dibenzo(a,h)anthracene   | 0.057 | 0.20 | 0.057  | U    | ug/L  |              |       |                 |                  |      |             |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 0.34   | U    | ug/L  |              |       |                 |                  |      |             |
| Nitrobenzene-d5  |       |      | 81.3   |      | %     | 100          | 81.3  | 24.0            | -                | 100  |             |
| 2-Fluorobiphenyl   |       |      | 91.1   |      | %     | 100          | 91.1  | 31.0            | -                | 110  |             |
| p-Terphenyl-d14  |       |      | 55.4   |      | %     | 100          | 55.4  | 45.0            | -                | 125  |             |

|   |      |      |      |  |      |      |      |      |   |     |  |
|---|------|------|------|--|------|------|------|------|---|-----|--|
| QA/QC Type: LCS      Lab Sample ID: WPAHA110617LCS      Client Sample ID: WPAHA110617LCS      Date Analyzed: 11/6/2017 3:40:00 PM |      |      |      |  |      |      |      |      |   |     |  |
| Naphthalene   | 0.13 | 2.0  | 39.2 |  | ug/L | 50.0 | 78.4 | 40.0 | - | 105 |  |
| Acenaphthylene  | 0.19 | 2.0  | 40.6 |  | ug/L | 50.0 | 81.2 | 38.0 | - | 115 |  |
| Acenaphthene  | 0.26 | 2.0  | 40.3 |  | ug/L | 50.0 | 80.6 | 46.0 | - | 121 |  |
| Fluorene  | 0.16 | 2.0  | 41.0 |  | ug/L | 50.0 | 82.0 | 47.0 | - | 122 |  |
| Phenanthrene  | 0.26 | 2.0  | 40.9 |  | ug/L | 50.0 | 81.8 | 51.0 | - | 130 |  |
| Anthracene  | 0.19 | 2.0  | 41.2 |  | ug/L | 50.0 | 82.4 | 47.0 | - | 124 |  |
| Fluoranthene  | 0.17 | 2.0  | 44.2 |  | ug/L | 50.0 | 88.4 | 45.0 | - | 126 |  |
| 1-Methylnaphthalene   | 0.21 | 2.0  | 40.1 |  | ug/L | 50.0 | 80.2 | 40.0 | - | 111 |  |
| 2-Methylnaphthalene   | 0.21 | 2.0  | 37.7 |  | ug/L | 50.0 | 75.4 | 39.0 | - | 108 |  |
| Pyrene  | 0.18 | 2.0  | 44.9 |  | ug/L | 50.0 | 89.8 | 47.0 | - | 131 |  |
| Benzo(a)anthracene  | 0.10 | 0.20 | 45.3 |  | ug/L | 50.0 | 90.6 | 45.0 | - | 131 |  |
| Chrysene  | 0.21 | 2.0  | 38.3 |  | ug/L | 50.0 | 76.6 | 45.0 | - | 128 |  |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPAHA110617

Analysis Method: EPA 8270/PAH Low Level

Preparation Type: 3510

Method Batch ID: MWPAHA110617

Preparation Date: 11/6/2017 8:30:00 AM

| Analyte                | MDL   | PQL  | Result | Qual                          | Units | Spike Amount | % REC                            | % REC Low Limit | % REC High Limit | %RPD                                | % RPD Limit |  |
|------------------------|-------|------|--------|-------------------------------|-------|--------------|----------------------------------|-----------------|------------------|-------------------------------------|-------------|--|
| QA/QC Type: LCS        |       |      |        | Lab Sample ID: WPAHA110617LCS |       |              | Client Sample ID: WPAHA110617LCS |                 |                  | Date Analyzed: 11/6/2017 3:40:00 PM |             |  |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 45.8   |                               | ug/L  | 50.0         | 91.6                             | 44.0            | -                | 124                                 |             |  |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 42.5   |                               | ug/L  | 50.0         | 85.0                             | 44.0            | -                | 124                                 |             |  |
| Benzo(a)pyrene         | 0.090 | 0.20 | 44.0   |                               | ug/L  | 50.0         | 88.0                             | 39.0            | -                | 116                                 |             |  |
| Indeno(1,2,3-cd)pyrene | 0.047 | 0.20 | 41.2   |                               | ug/L  | 50.0         | 82.4                             | 42.0            | -                | 126                                 |             |  |
| Dibenzo(a,h)anthracene | 0.057 | 0.20 | 38.7   |                               | ug/L  | 50.0         | 77.4                             | 42.0            | -                | 126                                 |             |  |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 40.2   |                               | ug/L  | 50.0         | 80.4                             | 35.0            | -                | 123                                 |             |  |
| Nitrobenzene-d5        |       |      | 90.9   |                               | %     | 100          | 90.9                             | 24.0            | -                | 100                                 |             |  |
| 2-Fluorobiphenyl       |       |      | 102    |                               | %     | 100          | 102                              | 31.0            | -                | 110                                 |             |  |
| p-Terphenyl-d14        |       |      | 74.5   |                               | %     | 100          | 74.5                             | 45.0            | -                | 125                                 |             |  |

|                        |       |      |      |                                |      |      |                                   |      |   |                                     |    |      |
|------------------------|-------|------|------|--------------------------------|------|------|-----------------------------------|------|---|-------------------------------------|----|------|
| QA/QC Type: LCSD       |       |      |      | Lab Sample ID: WPAHA110617LCSD |      |      | Client Sample ID: WPAHA110617LCSD |      |   | Date Analyzed: 11/6/2017 4:18:00 PM |    |      |
| Naphthalene            | 0.13  | 2.0  | 50.8 |                                | ug/L | 50.0 | 102                               | 40.0 | - | 105                                 | 26 | 32.0 |
| Acenaphthylene         | 0.19  | 2.0  | 54.6 |                                | ug/L | 50.0 | 109                               | 38.0 | - | 115                                 | 29 | 38.0 |
| Acenaphthene           | 0.26  | 2.0  | 52.6 |                                | ug/L | 50.0 | 105                               | 46.0 | - | 121                                 | 26 | 37.0 |
| Fluorene               | 0.16  | 2.0  | 54.1 |                                | ug/L | 50.0 | 108                               | 47.0 | - | 122                                 | 28 | 38.0 |
| Phenanthrene           | 0.26  | 2.0  | 54.2 |                                | ug/L | 50.0 | 108                               | 51.0 | - | 130                                 | 28 | 39.0 |
| Anthracene             | 0.19  | 2.0  | 54.9 |                                | ug/L | 50.0 | 110                               | 47.0 | - | 124                                 | 29 | 39.0 |
| Fluoranthene           | 0.17  | 2.0  | 58.4 |                                | ug/L | 50.0 | 117                               | 45.0 | - | 126                                 | 28 | 41.0 |
| 1-Methylnaphthalene    | 0.21  | 2.0  | 52.5 |                                | ug/L | 50.0 | 105                               | 40.0 | - | 111                                 | 27 | 36.0 |
| 2-Methylnaphthalene    | 0.21  | 2.0  | 49.1 |                                | ug/L | 50.0 | 98.2                              | 39.0 | - | 108                                 | 26 | 35.0 |
| Pyrene                 | 0.18  | 2.0  | 58.8 |                                | ug/L | 50.0 | 118                               | 47.0 | - | 131                                 | 27 | 42.0 |
| Benzo(a)anthracene     | 0.10  | 0.20 | 60.8 |                                | ug/L | 50.0 | 122                               | 45.0 | - | 131                                 | 29 | 43.0 |
| Chrysene               | 0.21  | 2.0  | 54.3 |                                | ug/L | 50.0 | 109                               | 45.0 | - | 128                                 | 35 | 41.0 |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 62.5 | S2                             | ug/L | 50.0 | 125                               | 44.0 | - | 124                                 | 31 | 40.0 |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 60.1 |                                | ug/L | 50.0 | 120                               | 44.0 | - | 124                                 | 34 | 40.0 |
| Benzo(a)pyrene         | 0.090 | 0.20 | 63.5 | S2                             | ug/L | 50.0 | 127                               | 39.0 | - | 116                                 | 36 | 39.0 |
| Indeno(1,2,3-cd)pyrene | 0.047 | 0.20 | 58.6 |                                | ug/L | 50.0 | 117                               | 42.0 | - | 126                                 | 35 | 42.0 |
| Dibenzo(a,h)anthracene | 0.057 | 0.20 | 57.2 |                                | ug/L | 50.0 | 114                               | 42.0 | - | 126                                 | 39 | 42.0 |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 58.3 |                                | ug/L | 50.0 | 117                               | 35.0 | - | 123                                 | 37 | 44.0 |
| Nitrobenzene-d5        |       |      | 95.3 |                                | %    | 100  | 95.3                              | 24.0 | - | 100                                 |    |      |
| 2-Fluorobiphenyl       |       |      | 105  |                                | %    | 100  | 105                               | 31.0 | - | 110                                 |    |      |
| p-Terphenyl-d14        |       |      | 120  |                                | %    | 100  | 120                               | 45.0 | - | 125                                 |    |      |

|                 |      |     |     |                               |      |  |                             |  |  |                                     |      |  |
|-----------------|------|-----|-----|-------------------------------|------|--|-----------------------------|--|--|-------------------------------------|------|--|
| QA/QC Type: DUP |      |     |     | Lab Sample ID: WPAHA110617DUP |      |  | Client Sample ID: 221059DUP |  |  | Date Analyzed: 11/7/2017 4:35:00 AM |      |  |
| Naphthalene     | 0.13 | 2.0 | 7.3 |                               | ug/L |  |                             |  |  | 5.6                                 | 51.0 |  |

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPAHA110617

Analysis Method: EPA 8270/PAH Low Level

Preparation Type: 3510

Method Batch ID: MWPAHA110617

Preparation Date: 11/6/2017 8:30:00 AM

| Analyte                | MDL   | PQL  | Result | Qual                          | Units | Spike Amount | % REC | % REC Low Limit             | - | % REC High Limit | %RPD | % RPD Limit                         |  |
|------------------------|-------|------|--------|-------------------------------|-------|--------------|-------|-----------------------------|---|------------------|------|-------------------------------------|--|
| QA/QC Type: DUP        |       |      |        | Lab Sample ID: WPAHA110617DUP |       |              |       | Client Sample ID: 221059DUP |   |                  |      | Date Analyzed: 11/7/2017 4:35:00 AM |  |
| Acenaphthylene         | 0.19  | 2.0  | 0.19   | U                             | ug/L  |              |       |                             |   |                  | 0    | 44.0                                |  |
| Acenaphthene           | 0.26  | 2.0  | 0.26   | U                             | ug/L  |              |       |                             |   |                  | 0    | 44.0                                |  |
| Fluorene               | 0.16  | 2.0  | 0.19   | I                             | ug/L  |              |       |                             |   |                  | 5.4  | 43.0                                |  |
| Phenanthrene           | 0.26  | 2.0  | 0.26   | U                             | ug/L  |              |       |                             |   |                  | 0    | 44.0                                |  |
| Anthracene             | 0.19  | 2.0  | 0.19   | U                             | ug/L  |              |       |                             |   |                  | 0    | 41.0                                |  |
| Fluoranthene           | 0.17  | 2.0  | 0.17   | U                             | ug/L  |              |       |                             |   |                  | 0    | 43.0                                |  |
| 1-Methylnaphthalene    | 0.21  | 2.0  | 20     |                               | ug/L  |              |       |                             |   |                  | 5.1  | 44.0                                |  |
| 2-Methylnaphthalene    | 0.21  | 2.0  | 33     |                               | ug/L  |              |       |                             |   |                  | 3.1  | 47.0                                |  |
| Pyrene                 | 0.18  | 2.0  | 0.18   | U                             | ug/L  |              |       |                             |   |                  | 0    | 44.0                                |  |
| Benzo(a)anthracene     | 0.10  | 0.20 | 0.10   | U                             | ug/L  |              |       |                             |   |                  | 0    | 42.0                                |  |
| Chrysene               | 0.21  | 2.0  | 0.21   | U                             | ug/L  |              |       |                             |   |                  | 0    | 47.0                                |  |
| Benzo(b)fluoranthene   | 0.088 | 0.10 | 0.088  | U                             | ug/L  |              |       |                             |   |                  | 0    | 43.0                                |  |
| Benzo(k)fluoranthene   | 0.083 | 0.20 | 0.083  | U                             | ug/L  |              |       |                             |   |                  | 0    | 43.0                                |  |
| Benzo(a)pyrene         | 0.090 | 0.20 | 0.090  | U                             | ug/L  |              |       |                             |   |                  | 0    | 41.0                                |  |
| Indeno(1,2,3-cd)pyrene | 0.047 | 0.20 | 0.047  | U                             | ug/L  |              |       |                             |   |                  | 0    | 45.0                                |  |
| Dibenzo(a,h)anthracene | 0.057 | 0.20 | 0.057  | U                             | ug/L  |              |       |                             |   |                  | 0    | 45.0                                |  |
| Benzo(g,h,i)perylene   | 0.34  | 2.0  | 0.34   | U                             | ug/L  |              |       |                             |   |                  | 0    | 46.0                                |  |
| Nitrobenzene-d5        |       |      | 91.7   |                               | %     | 100          | 91.7  | 24.0                        | - | 100              |      |                                     |  |
| 2-Fluorobiphenyl       |       |      | 103    |                               | %     | 100          | 103   | 31.0                        | - | 110              |      |                                     |  |
| p-Terphenyl-d14        |       |      | 110    |                               | %     | 100          | 110   | 45.0                        | - | 125              |      |                                     |  |

**Comments:**

Preparation Batch ID: WPROA110617

Analysis Method: FDEP FL-PRO

Preparation Type: 3510

Method Batch ID: MWPROA110617

Preparation Date: 11/6/2017 10:00:00 AM

| Analyte                             | MDL | PQL | Result | Qual                         | Units | Spike Amount | % REC | % REC Low Limit                 | - | % REC High Limit | %RPD | % RPD Limit                          |  |
|-------------------------------------|-----|-----|--------|------------------------------|-------|--------------|-------|---------------------------------|---|------------------|------|--------------------------------------|--|
| QA/QC Type: MB                      |     |     |        | Lab Sample ID: WPROA110617MB |       |              |       | Client Sample ID: WPROA110617MB |   |                  |      | Date Analyzed: 11/7/2017 12:42:00 AM |  |
| Total Recoverable Pet. Hydrocarbons | 76  | 500 | 76     | U                            | ug/L  |              |       |                                 |   |                  |      |                                      |  |
| Ortho-terphenyl                     |     |     | 107    |                              | %     | 100          | 107   | 82.0                            | - | 142              |      |                                      |  |
| Nonatriacontane(C39)                |     |     | 48.0   |                              | %     | 100          | 48.0  | 42.0                            | - | 193              |      |                                      |  |

|                 |  |  |  |                               |  |  |  |                                  |  |  |  |                                      |  |
|-----------------|--|--|--|-------------------------------|--|--|--|----------------------------------|--|--|--|--------------------------------------|--|
| QA/QC Type: LCS |  |  |  | Lab Sample ID: WPROA110617LCS |  |  |  | Client Sample ID: WPROA110617LCS |  |  |  | Date Analyzed: 11/6/2017 11:27:00 PM |  |
|-----------------|--|--|--|-------------------------------|--|--|--|----------------------------------|--|--|--|--------------------------------------|--|

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: WPROA110617  
 Method Batch ID: MWPROA110617

Analysis Method: FDEP FL-PRO


Preparation Type: 3510  
 Preparation Date: 11/6/2017 10:00:00 AM

| Analyte                             | MDL | PQL                            | Result | Qual | Units                             | Spike Amount | % REC | % REC Low Limit                      | % REC High Limit | %RPD | % RPD Limit |  |
|-------------------------------------|-----|--------------------------------|--------|------|-----------------------------------|--------------|-------|--------------------------------------|------------------|------|-------------|--|
| QA/QC Type: LCS                     |     | Lab Sample ID: WPROA110617LCS  |        |      | Client Sample ID: WPROA110617LCS  |              |       | Date Analyzed: 11/6/2017 11:27:00 PM |                  |      |             |  |
| Total Recoverable Pet. Hydrocarbons | 76  | 500                            | 861    |      | ug/L                              | 850          | 101   | 55.0                                 | -                | 118  |             |  |
| Ortho-terphenyl                     |     |                                | 108    |      | %                                 | 100          | 108   | 82.0                                 | -                | 142  |             |  |
| Nonatriacontane(C39)                |     |                                | 79.7   |      | %                                 | 100          | 79.7  | 42.0                                 | -                | 193  |             |  |
| QA/QC Type: LCSD                    |     | Lab Sample ID: WPROA110617LCSD |        |      | Client Sample ID: WPROA110617LCSD |              |       | Date Analyzed: 11/7/2017 12:05:00 AM |                  |      |             |  |
| Total Recoverable Pet. Hydrocarbons | 76  | 500                            | 822    |      | ug/L                              | 850          | 96.7  | 55.0                                 | -                | 118  | 4.6    20.0 |  |
| Ortho-terphenyl                     |     |                                | 116    |      | %                                 | 100          | 116   | 82.0                                 | -                | 142  |             |  |
| Nonatriacontane(C39)                |     |                                | 101    |      | %                                 | 100          | 101   | 42.0                                 | -                | 193  |             |  |
| QA/QC Type: DUP                     |     | Lab Sample ID: WPROA110617DUP  |        |      | Client Sample ID: 221059DUP       |              |       | Date Analyzed: 11/7/2017 10:51:00 AM |                  |      |             |  |
| Total Recoverable Pet. Hydrocarbons | 76  | 500                            | 1200   |      | ug/L                              |              |       |                                      |                  | 8.0  | 20.0        |  |
| Ortho-terphenyl                     |     |                                | 108    |      | %                                 | 100          | 108   | 82.0                                 | -                | 142  |             |  |
| Nonatriacontane(C39)                |     |                                | 66.2   |      | %                                 | 100          | 66.2  | 42.0                                 | -                | 193  |             |  |

Comments:

\* DEP South Rates

# Chain of Custody Record

|  |              |                        |      |   |                                |   |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|--|--------------|------------------------|------|---|--------------------------------|---|---------|--|---------------------------|----------------|---------|---|---------|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|------------------------------------|--|
| Company: <b>AET, LLC - L</b>   |              |                        |      | <b>Environmental Testing Laboratories, Inc.</b><br><br>412 W. Walcott Street<br>Thomasville, GA 31792-4359<br>229/228-2592 (telephone)<br>229/228-2594 (telefax)<br>www.etl-inc.com   |                                |   |         | Page <b>1</b> of <b>1</b>  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Address: <b>4265 New Tampa Hwy</b>                                     |              |                        |      |   |                                |   |         | Project Name: <b>Dade Cnty School board</b>  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Telephone Number: <b>(813) 263-3046</b> Telefax Number:                |              |                        |      | Project Number: <b>26672 (EOT)</b>  |                                |   |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Sampled by [Print Name(s)] / Affiliation<br><b>J. Marquez III, GIT</b> |              |                        |      | <b>Analyses Requested</b><br><table border="1" style="width:100%; height: 100px;"> <tr> <td style="width: 5%;">PAH</td> <td style="width: 5%;">8270</td> <td style="width: 5%;">TRPH</td> <td style="width: 5%;">FLP0</td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> </tr> </table> |                                |   |         | PAH  | 8270                      | TRPH           | FLP0    |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  | Project Manager: <b>A. Sanchez</b> |  |
| PAH  | 8270         | TRPH                   | FLP0 |   |                                |   |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Sampler(s) Signature(s)<br><i>J. Marquez III</i>                       |              |                        |      | Facility ID Number: <b>1318628706</b>   |                                |   |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  |              |                        |      | REQUESTED DUE DATE<br><b>STD 1TAT1</b>  |                                |   |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  |              |                        |      | Remarks   |                                |   |         | Lab Number   |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Item No.   | Field ID No. | Sample<br>Date    Time |      | Grab or Composite   | Matrix (see Codes)             | Number of Containers                    | PAH     | 8270   | TRPH                      | FLP0           |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  | MW-10        | 10/31/17               | 1224 | 6   | GW                             | 2                                       | X       | X  |                           |                |         |   | 221 063 |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  | MW-12        | "                      | 1251 | "   | "                              | "                                       | X       | X  |                           |                |         |   | ↓ 064   |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  | MW-11        | "                      | 1337 | "   | "                              | "                                       | X       | X  |                           |                |         |   | ↓ 065   |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Shipment Method  |              |                        |      | Total Number of Containers: <b>6</b>  |                                |   |         | ← Preservatives (see Codes) ICE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Out:   | / /          | Via:                   |      | Item No.  | Relinquished by / Affiliation  |   | Date    | Time   | Accepted by / Affiliation |                | Date    | Time                                      |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Returned:  | / /          | Via:                   |      |   | <b>J. Marquez III, GIT/AET</b> |   | 11/2/17 | 0700   | <i>[Signature]</i>        |                | 11-2-17 | 0700                                      |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| Additional Comments:   |              |                        |      |   | <i>[Signature]</i>             |   | 11-2-17 | 1000   | <i>[Signature]</i>        |                | 11-2-17 | 10:00                                     |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  |              |                        |      |   | <i>[Signature]</i>             |   | 11/2/17 | 12:00  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  |              |                        |      | Cooler Number(s) / Temperature(s) (°C)<br><b>22 / 4.2</b>   |                                |   |         | Sampling Kit Number  |                           |                |         | Received in Lab By:<br><i>[Signature]</i> |         | 11/2/17 1000 |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| MATRIX CODES:  |              |                        |      | A = Air    GW = Groundwater    SE = Sediment    SO = Soil    SW = Surface Water   |                                | WWE = Wastewater    O = Other (specify) |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| PRESERVATIVE CODES:  |              |                        |      | H = Hydrochloric acid    S = Sulfuric acid    N = Nitric    Na = Sodium Hydroxide   |                                | O = Other (specify)                     |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| PRESERVATIVE CODES:  |              |                        |      | SOIL VOCS    MS = Methanol / Sodium Bisulfate    MD = Methanol / DI Water   |                                |   |         |  |                           |                |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
| ETL PROJECT NO.  |              |                        |      |   |                                |   |         |  |                           | <b>17-3517</b> |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |
|  |              |                        |      |   |                                |   |         |  |                           | Page 16 of 19  |         |   |         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                    |  |

**Project Details**

Client: ADVANCED ENVIRONMENTAL TECHNOLOGIES

Project Name: DADE CNTY SCHOOL BOARD

**Shipping and Receiving**

Date/Time Received: 11/2/2017 12:00:00 PM      If present, were cooler custody seals intact?

Sampling Personnel: J MARQUEZ       Yes    No    N/A

Shipping Method: Laboratory Courier      If present, were sample bottle custody seals intact?

Shipping Tracking Number:       Yes    No    N/A

**Thermal Preservation**

Cooler Temp Method: Sample Temperature      Were cooler temperatures in compliance? (0.1-6.0C)

Thermometer ID: 160372413       Yes    No    N/A

Number of Coolers: 1      Cooler Temperatures: 4.2

**Chain of Custody**

Was the chain-of-custody received in coolers?       Yes    No    N/A

Was the chain-of-custody signed and properly relinquished?       Yes    No    N/A

Does the chain-of-custody agree with samples and analyses?       Yes    No    N/A

**Container Receipt**

Were samples received in appropriate bottleware for analyses?       Yes    No    N/A

Was sufficient volume submitted for analyses requested?       Yes    No    N/A

Were samples received within method holding times?       Yes    No    N/A

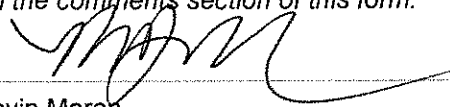
Were VOA vials received with zero headspace?       Yes    No    N/A

Were aqueous samples received at an acceptable pH?       Yes    No    N/A

pH Test Strip Lot: HC689794

**Comments**

*I certify I have answered the questions contained herein to the best of my knowledge and have affixed labels with unique IDs onto each sample container received. I certify any discrepancies regarding the samples as received by the laboratory have been documented completely in the comments section of this form.*

  
Kevin Moran

|                              |
|------------------------------|
| <b>Project Sample Detail</b> |
|------------------------------|

| Lab Sample ID  | Client Sample ID | Matrix                     | SPLP                     | TRPH<br>Speciation       | MaVPH<br>MaEPH           |
|--|------------------|----------------------------|--------------------------|--------------------------|--------------------------|
| <b>221063</b><br>221063-B1 (PAH)<br>221063-B2 (TRPH) | <b>MW-10</b>     | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>221064</b><br>221064-B1 (PAH)<br>221064-B2 (TRPH) | <b>MW-12</b>     | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>221065</b><br>221065-B1 (PAH)<br>221065-B2 (TRPH) | <b>MW-11</b>     | <b>AQUEOUS-Groundwater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Project Bottle Count Summary**

| Container Type  | Preservative | Number of Containers |
|-----------------|--------------|----------------------|
| 1-L Amber Glass | H2SO4        | 3                    |
| 1-L Amber Glass | NONE         | 3                    |
|                 | Total        | 6                    |

**APPENDIX F**

**PURCHASE ORDER/ATTACHMENT A SOW/SCS SUMMARY  
WORKSHEET**



**Order No. AF4CB5**

Version Number: 1  
 Internal Version: false  
 Issued on Fri, 24 Jun, 2016  
 Created on Fri, 24 Jun, 2016 by Ariba System

**Supplier:**  
 Advanced Environmental Technologies, LLC  
 4265 New Tampa Highway  
 Lakeland, FL 33815  
 United States  
 Phone: 1863-808-5796  
 Fax: 1850-208-3210  
 Contact: Keith Townsel

**Ship To:**  
 DEP-PETROLEUM RESTORATION PROGRAM  
 BMC RM 420 MS 4575  
 2600 BLAIR STONE RD  
 TALLAHASSEE, FL 32399  
 United States

**Bill To:**  
 DEP-PETROLEUM RESTORATION PROGRAM  
 BMC RM 420 MS 4575  
 2600 BLAIR STONE RD  
 TALLAHASSEE, FL 32399  
 United States

**Deliver To:**  
 David T Jacobs (Contracts)

Entity Description: Department of Environmental Protection  
 Organization Code: 37450404555  
 Object Code: 000000-139900  
 Expansion Option: JG  
 Exemption Status: No  
 Exemption Reason?:

| Item | Description                                      | Part Number | Unit   | Qty       | Need By | Unit Price    | Extended Amount    |
|------|--|-------------|--------|-----------|---------|---------------|--------------------|
| 1    | Contractor has been selected to perform a Low... |             | Dollar | 71,339.38 | None    | \$1.00000 USD | \$71,339.38000 USD |

Contractor has been selected to perform a Low Score Assessment (LSA) at the Dade Cnty School Bd-Transportation, 7011 SW 4th St, Miami, Miami-Dade County, Florida, FAC ID 138628726. Attachment A, Scope of Work, attached to the purchase order (PO) describes the work to be completed by the Contractor. All work shall be performed in accordance with the terms of the Agency Term Contract (ATC). The PRP reference number for this project is 833-021A.

**Attache**

d hereto and made a part of this PO is Attachment B - Schedule of Pay Items and Other Related Documents. Pay Items are at or below the negotiated maximum rates included in the ATC. Contractor must submit the appropriate completed documents from Attachment B to the Site Manager with each deliverable, as instructed. Upon completion and approval of all work under this PO, Contractor shall submit a signed Release of Claims document, along with the final invoice. Contractor must include Subcontractor Utilization Report form, included as a tab on Attachment B, with each invoice.

The Department will retain 10% of the total amount of each payment made. Contractor may submit a request for release of retainage upon completion, and DEP approval of, all work performed under this PO.

The Department will evaluate the Contractor as specified in the Agency Term Contract.

The Contractor agrees to perform the services described in the PO in accordance with the terms of its ATC (as those terms may have been amended) which are in effect on date of issuance of the PO. The applicable ATC terms are available at the following URL:

<https://facts.fldfs.com/Search/ContractDetail.aspx?AgencyId=370000&ContractId=GC833>

Distributors?: N  
 Requester: David T Jacobs (Contracts)  
 Ship To Code: DEP305S  
 State Contract ID:  
 Contract ID:

Requester Phone:  
PR No.: PR9534013  
MyGreenFlorida Content: N  
Method of Procurement: J - Agency ITN [s 287.057(1) (c), F.S.]  
Shipping Method: Best Way  
FOB Code: INC-Dest  
FOB Code Description: Destination freight paid by vendor and included in price. Title passes upon receipt. Vendor files any claims.  
Encumber Funds: Yes  
PO Start Date: Fri, 24 Jun, 2016  
PO End Date: Tue, 21 Mar, 2017  
Fiscal Year Indicator: 2016  
PUI#: 3701  
Site Code: 370000-12  
Terms and Conditions: [http://dms.myflorida.com/mfmp\\_PO\\_TC](http://dms.myflorida.com/mfmp_PO_TC)  
P Card Order?: No

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|              |                       |
|--------------|-----------------------|
| <b>Total</b> | <b>\$71,339.38000</b> |
|              | USD                   |

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### Comments

- Jonathan Labie (Contracts), 06/17/2016:  
The following attachments are attached hereto and made a part of this Purchase Order.  
Attachment A – Scope of Work  
Attachment B – Schedule of Pay Items and Other Related Documents (Jonathan Labie (Contracts), Fri, 17 Jun, 2016)
- Lauren Mackey (Contracts), 06/24/2016:  
PRP ref # 833-021A (Lauren Mackey (Contracts), Fri, 24 Jun, 2016)
- COMMENT by Vicki Chatelain (Contracts) on 06/24/2016  
Note: Attachment B language appearing in upper right-hand corner titled "Less Surcharge" is used by the program to identify the total cost less the 6% handling and MFMP fee on reimbursable items. This information is only used as a check point for PRP staff. The total PO amount for the project is the amount appearing in the "Total Extended Cost" section in the upper right-hand side of the spreadsheet. (Vicki Chatelain (Contracts), Fri, 24 Jun, 2016)

### Attachments

- ATTACHMENT by Jonathan Labie (Contracts) on *Friday, June 17, 2016 at 7:30 AM*  
Attachment A - LSA Scope of Work - 138628726.pdf (229637 bytes)
- ATTACHMENT by Jonathan Labie (Contracts) on *Friday, June 17, 2016 at 7:30 AM*  
Attachment B - Schedule of Pay Items & Other Rrelated Documents - 138628726.xlsm (1385223 bytes)

**Attachment A  
Petroleum Restoration Program  
Scope of Work**

**9-Digit Facility ID Number:** 138628726  
**STCM Facility Name:** Dade Cnty School Bd-Transportation

**SubPhase(s):** LSA

**Specifications**

All work must be performed in accordance with this Scope of Work (SOW) and any attachments, Chapters 62-160, 62-532, 62-777 and 62-780, F.A.C., all applicable FDEP and Water Management District guidance memoranda, standard industry procedures and as described in the Agency Term Contract (ATC).

Copies of all referenced guidelines are available at:

<http://www.dep.state.fl.us/waste/categories/pcp/default.htm>

Reports must be submitted using the appropriate FDEP forms found at:

[http://www.dep.state.fl.us/waste/categories/pcp/pages/pg\\_documents.htm](http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm)

|                                     |   |
|-------------------------------------|---|
| <b>Task 1 Description:</b>          | Conduct File Review and prepare Historical Summary Worksheet and Health & Safety Plan (HASP). Conduct site reconnaissance/field measurement visit including measuring top of casing (TOC) elevations of existing monitoring wells and gauging depth to water in the existing monitoring wells according to the attached Water Sampling Table; prepare a Modified Site Assessment Proposal. Please note that per the DEP site access agreement, a separate site access agreement between the owner and the ATC has been requested by the property owner or tenant. Submit an email or letter (copying the owner or tenant) indicating either that this separate site access agreement has been executed or that the owner no longer wants such an agreement with the contractor (the owner is content with the current DEP site access agreement). The DEP does not need a copy of this agreement. |
| <b>Task 1 Deliverable:</b>          | HASP, Historical Summary Worksheet; Modified Site Assessment Proposal including a summary of the site reconnaissance/field measurement visit, field notes, well TOC elevations, well gauging results and groundwater flow direction determined from the well TOC elevations and well gauging results. Email/letter confirming the ATC/Owner site access agreement is executed or that the Owner has retracted its request for a separate agreement with the ATC.  |
| <b>Task 1 Deliverable Due Days:</b> | 60  |
| <b>Task 2 Description:</b>          | Contingent upon written approval from FDEP. Obtain off-site access agreement(s). Perform Receptor Survey and Exposure Pathway identification. Perform supplemental site assessment activities including soil boring/monitoring well installation and soil/groundwater sampling in accordance with the attached Water Sampling, Soil and Air Sampling, Soil Boring and Well Installation Tables. After completion of all Task 2 field activities, prepare an Interim Assessment Report.  |
| <b>Task 2 Deliverable:</b>          | Interim Assessment Report including updated tables and figures, boring logs, field notes, groundwater sampling logs, well construction logs, receptor survey/exposure pathway ID, offsite access agreement(s), laboratory reports, and recommendations.   |
| <b>Task 2 Deliverable Due Days:</b> | 120   |

**Attachment A  
Petroleum Restoration Program  
Scope of Work**

**9-Digit Facility ID Number:** 138628726  
**STCM Facility Name:** Dade Cnty School Bd-Transportation

|                                     |  |
|-------------------------------------|--|
| <b>Task 3 Description:</b>          | Contingent upon written approval from FDEP. Prepare and submit a General Site Assessment Report in TSAR format, including the Site Screening Information tab of the Site Screening Workbook (located at <a href="http://www.dep.state.fl.us/waste/categories/pcp/pages/screening.htm">http://www.dep.state.fl.us/waste/categories/pcp/pages/screening.htm</a> ). Prepare the Initial Notice of Discovery of Contamination Package if contamination is discovered beyond the property boundaries. |
| <b>Task 3 Deliverable:</b>          | General Site Assessment Report; Initial Notice of Discovery of Contamination Package.  |
| <b>Task 3 Deliverable Due Days:</b> | 210  |
| <b>PO End Days: 270</b>             |  |

**Schedule of Pay Items (SPI)**

All unit rates and extended prices for all line item costs associated with this project are provided in the SPI [Attachment B to this Purchase Order (PO)] and shall not exceed the rates established in the ATC.

**Requests for Change (RFC)**

All requests for changes to the SOW must be submitted in writing and be approved in writing by the FDEP/LP using the RFC form in accordance with paragraphs 2.A and 26 of the ATC and can be found at:

<http://www.dep.state.fl.us/waste/categories/pcp/pages/templates.htm>

Any change which results in an extension of the PO end date, or a change in quantities or costs, requires that a PO Change Order be formally issued prior to performance of the revised SOW. Any change to deliverable due dates only, that does not result in the extension of the PO end date, submitted on an RFC and accepted by the FDEP/LP Site Manager will not require the issuance of a PO Change Order. A copy of the signed RFC must be submitted with any invoice for payment.

**Performance Measures**

The FDEP/LP Site Manager will review the submitted documentation to confirm that all work was performed in accordance with the Specifications referenced above. The FDEP/LP Site Manager will notify the Contractor of acceptance or any deficiencies in the work and/or deliverables. The Contractor will be given an opportunity to remedy deficiencies at no additional cost to the FDEP.

The FDEP/LP Site Manager will review the work and/or deliverables within the timeframes established in FDEP guidance documents. The Contractor will respond to any comments to complete the work and/or deliverables within the timeframe established in the comment letter or email correspondence.

**Invoicing, Payments and Financial Consequences**

The Contractor may submit an invoice for a Task upon written notification of acceptance of the work/deliverables by the FDEP/LP Site Manager. Upon receipt of FDEP/LP written approval of the required documentation for completed portions of each task, the Contractor must submit an invoice. Invoices for completed work may be submitted no more frequently than every thirty (30) days, or upon completion of the individual tasks as specified. Each invoice request must contain all documentation of performance as specified in the ATC, this Purchase Order (PO), and its attachments.

Failure to provide all deliverables, failure to provide deliverables which are satisfactory or failure to meet the specified deliverable timetables, shall result in non-payment, loss of retainage, or other financial consequences, and/or termination of the PO, as specified in the ATC. If the deliverable due day occurs on a weekend, state holiday, or federal holiday the deliverable will be due the following business day.

**Attachment A**  
**Petroleum Restoration Program**  
**Scope of Work**

**9-Digit Facility ID Number:** 138628726

**STCM Facility Name:** Dade Cnty School Bd-Transportation

Retainage shall be withheld in the amount of 10%, unless otherwise noted in the SPI, from each payment by the FDEP/LP until completion and approval of all Tasks. The Contractor shall submit a Release of Claims and request for retainage payment with the final invoice. Payment of retainage will be reduced by the amount of any assessed financial consequences.

**Notice of Field Activities**

The Contractor must provide written notification (emails are acceptable) of field activities at least seven (7) calendar days prior to the commencement of work to all applicable parties including the PRP site manager, PRP Inspector (PRP\_Inspector@dep.state.fl.us), site operator, site owner, RP and affected off-site property owners.

**Florida Department of Environmental Protection - Petroleum Restoration Program**

FDEP Facility ID#: 138628726

STCM Facility Name: Dade Cnty School Bd-Transportation

*Any blank fields are not applicable to the scope of work.*

| WATER SAMPLING TABLE   |   |                           |                           |                             |                     |              |                       |                     |                          |             |                          |                        |                               |                 |                 |  |   |   |   |
|------------------------|---|---------------------------|---------------------------|-----------------------------|---------------------|--------------|-----------------------|---------------------|--------------------------|-------------|--------------------------|------------------------|-------------------------------|-----------------|-----------------|--|---|---|---|
| Task #                 | Well #(s) or Water Sample Location                              | Frequency (if applicable) | Expedited Turnaround (TA) | Water Level/FP Gauging Only | (9-27.) BTEX + MTBE | (9-30.) PAHs | (9-36.) TRPH (FL-PRO) | (9-41.) Lead, Total | (9-31.a.) EDB (via 8260) | (9-79.) EDC | (9-44.a.) Dissolved Iron | (9-53.) Nitrate [as N] | (9-57.) Orthophosphate [as P] | (9-60.) Sulfate | (9-80.) Methane | (9-26.) Used Oil/Unknown Product Group-Table D |   |   |   |
| 1                      | Gauge 12 existing wells   |                           |                           | 12                          |                     |              |                       |                     |                          |             |                          |                        |                               |                 |                 |  |   |   |   |
| 2                      | Sample 10 existing shallow wells (EDB, EDC, Pb & NAM wells TBD) |                           |                           |                             | 10                  | 10           | 10                    | 3                   | 3                        | 3           | 3                        | 3                      | 3                             | 3               | 3               |  |   |   |   |
| 2                      | Sample 1 existing deep well                                     |                           |                           |                             | 1                   | 1            | 1                     |                     |                          |             |                          |                        |                               |                 |                 |  |   |   |   |
| 2                      | Sample 12 newly installed shallow wells (Table D - well TBD)    |                           |                           | 12                          | 12                  | 12           | 12                    |                     |                          |             |                          |                        |                               |                 |                 | 1  |   |   |   |
| 2                      | Sample 1 newly installed deep well                              |                           |                           |                             | 1                   | 1            | 1                     |                     |                          |             |                          |                        |                               |                 |                 |  |   |   |   |
| 2                      | Gauge wells during newly installed deep well sampling           |                           |                           | 24                          |                     |              |                       |                     |                          |             |                          |                        |                               |                 |                 |  |   |   |   |
| 2                      | SPLP Leachate   |                           |                           |                             | 4                   | 4            |                       |                     |                          |             |                          |                        |                               |                 |                 |  |   |   |   |
| 2                      | TCLP Leachate   |                           |                           |                             |                     |              |                       | 1                   |                          |             |                          |                        |                               |                 |                 |  |   |   |   |
| <b>Task 1 Subtotal</b> |   |                           |                           | 12                          | 0                   | 0            | 0                     | 0                   | 0                        | 0           | 0                        | 0                      | 0                             | 0               | 0               | 0  | 0 | 0 | 0 |
| <b>Task 2 Subtotal</b> |   |                           |                           | 36                          | 28                  | 28           | 24                    | 4                   | 3                        | 3           | 3                        | 3                      | 3                             | 3               | 3               | 3  | 1 | 0 | 0 |
| <b>GRAND TOTALS</b>    |   |                           |                           | 48                          | 28                  | 28           | 24                    | 4                   | 3                        | 3           | 3                        | 3                      | 3                             | 3               | 3               | 3  | 1 | 0 | 0 |

**Florida Department of Environmental Protection - Petroleum Restoration Program**

FDEP Facility ID#: 138628726

STCM Facility Name: Dade Cnty School Bd-Transportation

*Any blank fields are not applicable to the scope of work.*

| <b>SOIL and AIR SAMPLING TABLE</b> |                            |                           |                           |                                |                    |             |                      |                              |                              |                 |                 |                  |              |                             |                         |   |   |   |                        |
|------------------------------------|----------------------------|---------------------------|---------------------------|--------------------------------|--------------------|-------------|----------------------|------------------------------|------------------------------|-----------------|-----------------|------------------|--------------|-----------------------------|-------------------------|---|---|---|------------------------|
| Task #                             | Soil /Air Sample Locations | Frequency (if applicable) | Expedited Turnaround (TA) | Depth Interval (if applicable) | (9-2.) BTEX + MTBE | (9-5.) PAHs | (9-8.) TRPH (FL-PRO) | (9-15.) TCLP-Extraction Only | (9-16.) SPLP-Extraction Only | (9-11.) Arsenic | (9-12.) Cadmium | (9-13.) Chromium | (9-14.) Lead | (9-8.a.) TRPH Fractionation | (9-1.) Table D Used Oil |   |   |   | (8-14.) Encore Sampler |
| 2                                  | High Vadose                |                           |                           |                                | 8                  | 8           | 8                    |                              | 8                            |                 |                 |                  |              | 4                           |                         |   |   |   | 4                      |
| 2                                  | Waste Oil UST Area         |                           |                           |                                |                    |             |                      |                              |                              |                 |                 |                  |              |                             | 2                       |   |   |   |                        |
| 2                                  | Pre-burn                   |                           |                           |                                |                    |             |                      | 1                            |                              | 1               | 1               | 1                | 1            |                             |                         |   |   |   |                        |
| 2                                  | Contingent Encores         |                           |                           |                                |                    |             |                      |                              |                              |                 |                 |                  |              |                             |                         |   |   |   | 4                      |
| <b>Task 2 Subtotal</b>             |                            |                           |                           |                                | 8                  | 8           | 8                    | 1                            | 8                            | 1               | 1               | 1                | 1            | 4                           | 2                       | 0 | 0 | 0 | 8                      |
| <b>GRAND TOTALS</b>                |                            |                           |                           |                                | 8                  | 8           | 8                    | 1                            | 8                            | 1               | 1               | 1                | 1            | 4                           | 2                       | 0 | 0 | 0 | 8                      |

**Florida Department of Environmental Protection - Petroleum Restoration Program**

FDEP Facility ID#: 138628726

STCM Facility Name: Dade Cnty School Bd-Transportation

*Any blank fields are not applicable to the scope of work.*

| <b>SOIL BORING (SB) and WELL INSTALLATION TABLE</b> |                     |          |                |                           |  |                                      |                                      |                                  |           |                    |                |                          |                         |                              |                           |                           |                      |
|---|---------------------|----------|----------------|---------------------------|--|--------------------------------------|--------------------------------------|----------------------------------|-----------|--------------------|----------------|--------------------------|-------------------------|------------------------------|---------------------------|---------------------------|----------------------|
| <b>SOIL BORING DETAILS</b>                          |                     |          |                |                           | <b>Screening/Split Spoon Intervals</b> |                                      |                                      | <b>WELL INSTALLATION DETAILS</b> |           |                    |                |                          |                         |                              |                           |                           |                      |
| TASK #  | Installation Method | Quantity | Depth (ft bls) | Total Boring Footage (ft) | Screening Depth Interval 1 & Spacing   | Screening Depth Interval 2 & Spacing | Screening Depth Interval 3 & Spacing | Quantity                         | Well Type | Well Diameter (in) | Depth (ft bls) | Screen Interval (ft bls) | Total Well Footage (ft) | Surface Casing Diameter (in) | Surface Casing Depth (ft) | Total Casing Footage (ft) | Well Completion Type |
| 2   | DPT                 | 24       | 14             | 336                       | 0-4'@1'                                | 4-14'@2'                             |                                      |                                  |           |                    |                |                          | 0                       |                              |                           | 0                         |                      |
| 2   | HSA/MR              | 12       | 20             | 240                       | 0-4'@1'                                | 4-20'@2'                             |                                      | 12                               | MW        | 2                  | 20             | 10-20                    | 240                     |                              |                           | 0                         | 8" MH                |
| 2   | HSA/MR              | 1        | 40             | 40                        | 0-4'@1'                                | 4-20'@2'                             | >20'@5'                              | 1                                | DW        | 2                  | 40             | 35-40                    | 40                      | 6                            | 30                        | 30                        | 12" MH               |
| <b>TOTALS</b>                                       |                     |          |                | <b>616</b>                |  |                                      |                                      |                                  |           |                    |                |                          | <b>280</b>              |                              |                           | <b>30</b>                 |                      |

**Request for Change - Authorization for Change in Scope of Work**

ATC Amended and Restated Contract Line Items

9-Digit Facility ID #: 138828726

Facility Name: DADE COUNTY SCHOOL BD - TRANSPORTATION

Site Manager Name: DAVID JACOBS

Site Manager Phone: (561) 793-3849

Site Manager Email: djacobs@ene.com

Contract #: GC833

Contractor: AET

Contractor Phone: (863) 614-0692

FDEP Cost Share %: 100.00%

PO #: AF4CB5

CO #: 1

Ref #: 833-021A

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

*Description of Change and Justification: Include complete description of who, what, where, when, how and why.*

Due to correspondence from the Dade County School Board on 8/10/16 noting that the Board will be passing a referendum during a meeting on 9/7/16 to streamline the site access agreement request procedure, AET requests a change order to extend the due dates to the Task 1-3 event deliverables.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items

| Task               | Deliverable Name              | Previous Due Date | New Due Date          | Change Order Subtotals |
|--------------------|-------------------------------|-------------------|-----------------------|------------------------|
| 1                  | HASP, FILE REVIEW, SITE RECON | 8/23/2016         | 10/31/2016            | \$ -                   |
| 2                  | INTERIM ASSESSMENT REPORT     | 10/24/2016        | 12/30/2016            | \$ -                   |
| 3                  | TSAR                          | 1/20/2017         | 3/30/2017 - 3/31/2017 | \$ -                   |
| Period of Service: |                               | 3/21/2017         | 5/29/2017             | \$ -                   |

### Request for Change - Authorization for Change in Scope of Work

#### ATC Amended and Restated Contract Line Items

9-Digit Facility ID #: 138628726

Facility Name: DADE COUNTY SCHOOL BD - TRANSPORTATION

Contract #: GC833

Contractor: AET

PO #: AF4CB5

CO #: 1

Contractor Representative: ANDRES SANCHEZ  
(Print Name)

FDEP Site Manager: DAVID JACOBS  
(Print Name)

Team Leader/Co. Manager: \_\_\_\_\_  
(Print Name)

Reviewer (optional): \_\_\_\_\_

Technical Approval (optional): \_\_\_\_\_

PA Approval (optional): \_\_\_\_\_

Previous End Date

New End Date

Total Authorized Cost  
(FDEP Share: 100%)

8/19/2016

(Date)

[Signature]  
(Signature)

8/19/2016

(Date)

[Signature]  
(Signature)

(Signature)

(Date)

**Contingent Funding Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726  
 Facility Name: DADE CNTY SCHOOLS BD - TRANSP  
 Site Manager Name: DAVID JACOBS  
 Site Manager Phone: 561-793-3849  
 Site Manager Email: DJACOBS@ENE.COM

Contract #: GC728  
 Contractor: AET, LLC  
 Contractor Phone: 863-614-0692  
 FDEP Cost Share %: 100.00%  
 PO #: AF4CB5  
 CO #: 2  
 Ref #: 833-021A


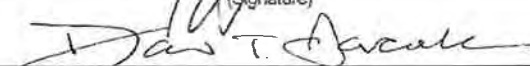
This is an authorization for the costs associated with adding Contingent Funding to an existing Purchase Order in MFMP. Contingent Funding is only allowed to be used to offset the cost for pay items associated with a Field Request for Change.

| TASK | PAY ITEM | DESCRIPTION  | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|--|-----------------|----------------|----------|----------------|
| 3    | 23-1     | Contingent Funding - Allowance only to be used as offset for field change orders | NOT BILLABLE    | \$1.00         | 7000.00  | \$ 7,000.00    |

| Task | Change Order Subtotals |
|------|------------------------|
| 3    | \$ 7,000.00            |
|      | <b>\$ 7,000.00</b>     |

**Total Authorized Cost**  
(FDEP Share: 100%)

Contractor Representative: ANDRES SANCHEZ  
 (Print Name)  
 FDEP Site Manager: DAVID JACOBS  
 (Print Name)  
 Other (if applicable): \_\_\_\_\_  
 (Print Name)

  
 \_\_\_\_\_  
 (Signature)  
  
 \_\_\_\_\_  
 (Signature)

8/31/2016  
 (Date)  
8/31/2016  
 (Date)  
 \_\_\_\_\_  
 (Date)

**Request for Change - Authorization for Change in Scope of Work**

ATC Amended and Restated Contract Line Items

9-Digit Facility ID #: 138628726

Contract #: GC833

PO #: AF4CB5

Facility Name: DADE COUNTY SCHOOL BD - TRANSPORTATION

Contractor: AET LLC sr

CO #: 3

Site Manager Name: DAVID JACOBS

Contractor Phone: (863) 614-0692

Ref #: 833-021A

Site Manager Phone: (561) 793-3849

FDEP Cost Share %: 100.00%

Site Manager Email: djacobs@ene.com

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

*Description of Change and Justification: include complete description of who, what, where, when, how and why.*

Due to correspondence from the Dade County School Board on 10/25/16 noting that the site access agreement is being finalized, AET requests a change order to extend the due dates to the Task 1-3 event deliverables.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

| Task               | Deliverable Name              | Previous Due Date | New Due Date | Change Order Subtotals |
|--------------------|-------------------------------|-------------------|--------------|------------------------|
| 1                  | HASP, FILE REVIEW, SITE RECON | 10/31/2016        | 12/30/2016   | \$ -                   |
| 2                  | INTERIM ASSESSMENT REPORT     | 12/30/2016        | 2/28/2017    | \$ -                   |
| 3                  | TSAR                          | 3/30/2017         | 5/31/2017    | \$ -                   |
| Period of Service: |                               | 5/29/2017         | 7/31/2017    | \$ -                   |

### Request for Change - Authorization for Change in Scope of Work

#### ATC Amended and Restated Contract Line Items

9-Digit Facility ID #: 138628726

Facility Name: DADE COUNTY SCHOOL BD - TRANSPORTATION

Contract #: GC833

Contractor: AET LLC sr

PO #: AF4CB5

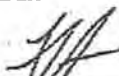
CO #: 3

Contractor Representative: ANDRES SANCHEZ  
(Print Name)

Previous End Date

New End Date

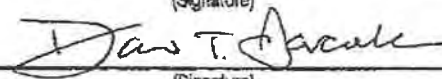
Total Authorized Cost  
(FDEP Share: 100%)

  
(Signature)

10/25/2016

(Date)

FDEP Site Manager: DAVID JACOBS  
(Print Name)

  
(Signature)

10/25/2016

(Date)

Team Leader/Co. Manager: \_\_\_\_\_  
(Print Name)

(Signature)

(Date)

Reviewer (optional): \_\_\_\_\_

Technical Approval (optional): \_\_\_\_\_

PA Approval (optional): \_\_\_\_\_

**Request for Change - Authorization for Change in Scope of Work**

ATC Amended and Restated Contract Line Items

9-Digit Facility ID #: 138628726

Contract #: GC833

PO #: AF4CB5

Facility Name: DADE COUNTY SCHOOL BD - TRANSPORTATION

Contractor: Advanced Environmental Technologies, LLC

CO #: 4

Site Manager Name: DAVID JACOBS

Contractor Phone: (863) 814-0692

Ref #: 833-021A

Site Manager Phone: (561) 793-3849

FDEP Cost Share %: 100.00%

Site Manager Email: djacobs@ene.com

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

*Description of Change and Justification: Include complete description of who, what, where, when, how and why.*

Due to correspondence from the Dade County School Board on 12/12/16 noting that the site access agreement is being finalized, AET requests a change order to extend the due dates to the Task 1-3 event deliverables.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

| Task               | Deliverable Name              | Previous Due Date | New Due Date | Change Order Subtotals |
|--------------------|-------------------------------|-------------------|--------------|------------------------|
| 1                  | HASP, FILE REVIEW, SITE RECON | 12/30/2016        | 1/30/2017    | \$ -                   |
| 2                  | INTERIM ASSESSMENT REPORT     | 2/28/2017         | 3/30/2017    | \$ -                   |
| 3                  | TSAR                          | 5/31/2017         | 6/30/2017    | \$ -                   |
| Period of Service: |                               | 7/31/2017         | 8/30/2017    | \$ -                   |

**Request for Change - Authorization for Change in Scope of Work**


ATC Amended and Restated Contract Line Items

9-Digit Facility ID #: 138628726  
Facility Name: DADE COUNTY SCHOOL BD - TRANSPORTATION

Contract #: GC833  
Contractor: AET

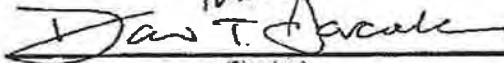
PO #: AF4CB5  
CO #: 4

Contractor Representative: ANDRES SANCHEZ  
(Print Name)

Previous End Date \_\_\_\_\_  
New End Date \_\_\_\_\_  
  
(Signature)

Total Authorized Cost  
(FDEP Share: 100%)  
12/27/2016  
(Date)

FDEP Site Manager: DAVID JACOBS  
(Print Name)

  
(Signature)

12/28/2016  
(Date)

Team Leader/Co. Manager: \_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

Reviewer (optional): \_\_\_\_\_

Technical Approval (optional): \_\_\_\_\_

PA Approval (optional): \_\_\_\_\_

**Request for Change - Authorization for Change in Scope of Work**

ATC Amended and Restated Contract Line Items

|  |   |                        |
|--|---|------------------------|
| 9-Digit Facility ID #: <u>138828726</u>                      | Contract #: <u>GC833</u>                | PO #: <u>AF4CB5</u>    |
| Facility Name: <u>DADE COUNTY SCHOOL BD - TRANSPORTATION</u> | Contractor: <u>AET</u>                  | CO #: <u>5</u>         |
| Site Manager Name: <u>DAVID JACOBS</u>                       | Contractor Phone: <u>(863) 614-0692</u> | Ref #: <u>833-021A</u> |
| Site Manager Phone: <u>(561) 793-3849</u>                    | FDEP Cost Share %: <u>100.00%</u>       |                        |
| Site Manager Email: <u>djacobs@ene.com</u>                   |   |                        |

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

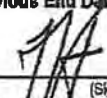
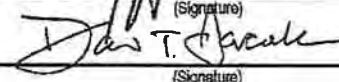
Description of Change and Justification: Include complete description of who, what, where, when, how and why.

AET has not received the site access agreement from Dade County School Board, AET requests a change order to extend the due dates to the Task 1-3 event deliverables.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items

| Task               | Deliverable Name              | Previous Due Date | New Due Date | Change Order Subtotals |
|--------------------|-------------------------------|-------------------|--------------|------------------------|
| 1                  | HASP, FILE REVIEW, SITE RECON | 1/30/2017         | 3/31/2017    | \$ -                   |
| 2                  | INTERIM ASSESSMENT REPORT     | 3/30/2017         | 5/29/2017    | \$ -                   |
| 3                  | TSAR                          | 6/30/2017         | 8/29/2017    | \$ -                   |
| Period of Service: |                               | 8/30/2017         | 10/30/2017   | \$ -                   |

|  |   |                            |
|--|---|----------------------------|
| Contractor Representative: <u>ANDRES SANCHEZ</u><br>(Print Name) | <u></u><br>(Signature)  | <u>1/26/2017</u><br>(Date) |
| FDEP Site Manager: <u>DAVID JACOBS</u><br>(Print Name)           | <u></u><br>(Signature) | <u>1/30/2017</u><br>(Date) |
| Team Leader/Co. Manager: _____                                   | _____   | _____                      |



Florida Department of Environmental Protection-Division of Waste Management-Petroleum Restoration Program  
**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726

DADE CNTY SCHOOL BD-

Facility Name: TRANSPORTATION

(Print Name)

Contract #: GC833

Advanced Environmental

Contractor: Technologies, LLC

(Signature)

PO #: AF4CB5

CO #: 6

(Date)

Reviewer (optional):

Technical Approval (optional):

Cost Center Approval (optional):

**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726 ✓  
 \_\_\_\_\_  
 Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION ✓  
 Site Manager Name: Rafael Maldonado ✓  
 Site Manager Phone: (561)793-3849 Ext 3904 ✓  
 Site Manager Email: rmaldonado@ene.com

Contract #: GC833 ✓  
 \_\_\_\_\_  
 Contractor: Advanced Environmental Technologies, LLC  
 Contractor Phone: (863) 614-0692 ✓  
 FDEP Cost Share %: 100.00%

PO #: AF4CB5 ✓  
 \_\_\_\_\_  
 CO #: 7 ✓  
 CO Type: Date Extension Only  
 Ref #: 833-021A ✓

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

*Description of Change and Justification: include complete description of who, what, where, when, how and why.*  
 AET submitted the site access agreement to Dade County School Board on 3/15/17 for final approval. AET has not received the final copy of the agreement; therefore, AET requests a time extension for the deliverable due date for Task 1-3.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

| Task               | Deliverable Name              | Previous Due Date | New Due Date | Change Order Subtotals |
|--------------------|-------------------------------|-------------------|--------------|------------------------|
| 1                  | HASP, FILE REVIEW, SITE RECON | 5/29/2017         | 7/31/2017    | \$ -                   |
| 2                  | INTERIM ASSESSMENT REPORT     | 7/31/2017         | 9/29/2017    | \$ -                   |
| 3                  | TSAR                          | 10/31/2017        | 12/29/2017   | \$ -                   |
| Period of Service: |                               | 12/29/2017        | 2/28/2018    | \$ -                   |

Previous End Date                      New End Date                      Total Authorized Cost (FDEP Share: 100%)

Contractor Representative: Andres Sanchez  
 \_\_\_\_\_  
 (Print Name)  
 FDEP Site Manager: Rafael Maldonado  
 \_\_\_\_\_  
 (Print Name)  
 Administrative Reviewer: \_\_\_\_\_

[Signature]  
 \_\_\_\_\_  
 (Signature)  
Elizabeth Rogers for  
 \_\_\_\_\_  
 (Signature)

5/27/2017  
 \_\_\_\_\_  
 (Date)  
5/30/17  
 \_\_\_\_\_  
 (Date)

**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726

DADE CNTY SCHOOL BD-

Facility Name: TRANSPORTATION

(Print Name)

Contract #: GC833

Advanced Environmental

Contractor: Technologies, LLC

(Signature)

PO #: AF4CB5

CO #: 7

(Date)

Reviewer (optional): \_\_\_\_\_

Technical Approval (optional): \_\_\_\_\_

Cost Center Approval (optional): \_\_\_\_\_

**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726 ✓  
 \_\_\_\_\_  
 DADE CNTY SCHOOL BD-  
 Facility Name: TRANSPORTATION ✓  
 \_\_\_\_\_  
 Site Manager Name: Rafael Maldonado  
 \_\_\_\_\_  
 Site Manager Phone: (561)793-3849 Ext 3904 ✓  
 \_\_\_\_\_  
 Site Manager Email: rmaldonado@ene.com  
 \_\_\_\_\_

Contract #: GC833 ✓  
 \_\_\_\_\_  
 Advanced Environmental  
 Contractor: Technologies, LLC ✓  
 \_\_\_\_\_  
 Contractor Phone: (863) 614-0692  
 \_\_\_\_\_  
 FDEP Cost Share %: 100.00%  
 \_\_\_\_\_

PO #: AF4CB5 ✓  
 \_\_\_\_\_  
 CO #: 8 ✓  
 \_\_\_\_\_  
 CO Type: Regular  
 \_\_\_\_\_  
 Ref #: 833-021A ✓  
 \_\_\_\_\_

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

*Description of Change and Justification: Include complete description of who, what, where, when, how and why.*

According to Dade County Schools Transportation Department there are no as-built drawings available documenting the location of, but not limited to abandoned USTs, electric lines, communication lines, fiber optic lines, sewage piping, water piping within the area of investigation. The site has been in operation since 1956 and has undergone numerous renovations. AET requests funds for Ground Penetrating Radar (GPR) services to aid in locating potentially critical utilities within the assessment area. A mobilization and 4hrs of field tech labor are requested to oversee the GPR survey. AET also requests a time extension for the Task 2-3 deliverables and POS date.

| TASK | PAY ITEM | DESCRIPTION  | UNIT OF MEASURE  | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|--|------------------|----------------|----------|----------------|
| 2    | 1-7. ✓   | 6% Handling Fee for Cost Reimbursable Items ✓                                    | % Surcharge ✓    | \$0.06 ✓       | 950 ✓    | \$ 57.00       |
| 2    | 22-1. ✓  | GPR ✓  | Reimbursable* ✓  | \$1.00 ✓       | 950 ✓    | \$ 950.00      |
| 2    | 20-6. ✓  | Scientist/Technical Specialist (Key) ✓   | Per Hour ✓       | \$90.00 ✓      | 4 ✓      | \$ 360.00      |
| 2    | 3-1. ✓   | Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way ✓ | Per Round Trip ✓ | \$452.48 ✓     | 1 ✓      | \$ 452.48      |

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

| Task | Deliverable Name | Previous Due Date | New Due Date | Change Order Subtotals |
|------|------------------|-------------------|--------------|------------------------|
|------|------------------|-------------------|--------------|------------------------|

**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726

Contract #: GC833

PO #: AF4CB5

DADE CNTY SCHOOL BD-  
Facility Name: TRANSPORTATION

Advanced Environmental

Contractor: Technologies, LLC

CO #: 8

|                           |                             |              |             |             |
|---------------------------|-----------------------------|--------------|-------------|-------------|
| 2                         | INTERIM ASSESSMENT REPORT ✓ | 9/29/2017 ✓  | 11/28/2017  | \$ 1,819.48 |
| 3                         | TSAR ✓                      | 12/29/2017 ✓ | 2/27/2018   | \$ -        |
| <b>Period of Service:</b> |                             | 2/28/2018 ✓  | 4/30/2018 ✓ | \$ 1,819.48 |

Previous End Date

New End Date

Total Authorized Cost  
(FDEP Share: 100%)

Contractor Representative: Andres Sanchez  
(Print Name)

  
(Signature)


9/18/2017  
(Date)

FDEP Site Manager: Rafael Maldonado  
(Print Name)

  
(Signature)

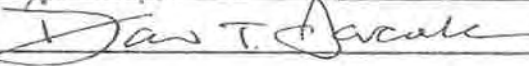
9/19/2017  
(Date)

Administrative Reviewer: Blake Miller  
(Print Name)

  
(Signature)

9-20-17  
(Date)

Reviewer (optional):  9/20/17

Technical Approval (optional): 

Cost Center Approval (optional): \_\_\_\_\_

**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726

DADE CNTY SCHOOL BD-

Facility Name: TRANSPORTATION

Site Manager Name: Rafael Maldonado

Site Manager Phone: (561)793-3849 Ext 3904

Site Manager Email: rmaldonado@ene.com

Contract #: GC833

Advanced Environmental

Contractor: Technologies, LLC

Contractor Phone: (863) 614-0692

FDEP Cost Share %: 100.00%

PO #: AF4CB5

CO #: 9

CO Type: Date Extension Only

Ref #: 833-021A

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

Description of Change and Justification: Include complete description of who, what, where, when, how and why.

AET conducted groundwater sampling activities at the site on 10/17/2017. Samples from MW-10 thru MW-12 were out of hold. AET remobilized and resampled MW-10 thru MW-12 (at its own expense) on 10/31/2017. Laboratory results were received on 11/7/2017. AET requests a time extension for Task 2-3 deliverables and POS date in order to schedule/coordinate and complete soil assessment at the subject site.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items

| Task               | Deliverable Name          | Previous Due Date | New Due Date | Change Order Subtotals |
|--------------------|---------------------------|-------------------|--------------|------------------------|
| 2                  | INTERIM ASSESSMENT REPORT | 11/28/2017        | 12/28/2017   | \$ -                   |
| 3                  | TSAR                      | 2/27/2018         | 3/29/2018    | \$ -                   |
| Period of Service: |                           | 4/30/2018         | 5/30/2018    | \$ -                   |

Previous End Date

New End Date

Total Authorized Cost  
(FDEP Share: 100%)

Contractor Representative: Andres Sanchez  
(Print Name)

[Signature]  
(Signature)

11/8/2017  
(Date)

FDEP Site Manager: Rafael Maldonado  
(Print Name)

[Signature]  
(Signature)

11/9/2017  
(Date)

Administrative Reviewer: \_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)





**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726 ✓  
 \_\_\_\_\_  
 Facility Name: DADE CNTY SCHOOL BD-  
TRANSPORTATION ✓  
 Site Manager Name: Rafael Maldonado  
 Site Manager Phone: (561)793-3849 Ext 3904 ✓  
 Site Manager Email: rmaldonado@ene.com

Contract #: GC833 ✓  
 \_\_\_\_\_  
 Contractor: Advanced Environmental  
Technologies, LLC ✓  
 Contractor-Phone: (863) 614-0692  
 FDEP Cost Share %: 100.00%

PO #: AF4CB5 ✓  
 \_\_\_\_\_  
 CO #: 12 ✓  
 CO Type: Regular  
 Ref #: 833-021A ✓

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

*Description of Change and Justification: Include complete description of who, what, where, when, how and why.*

Per conversation with FDEP, AET requests funds to collect three confirmatory soil samples from two soil borings at the subject site. Soil samples will be collected from SB-32 at 1-2ft and 4ft intervals for EPA 8270 (PAH). Soil samples will also be collected from SB-31 at 4ft interval for FL-PRO (TRPH) and fractionation, if applicable and after FDEP approval. One unit of electronic data deliverable is requested. AET will submit field notes, lab reports, updated tables, and updated figures as deliverable prior to the TSAR. One mobilization to the site is requested to conduct the above mentioned field activities. **BORINGS WILL BE ADVANCED VIA HAND AUGER**

| TASK | PAY ITEM | DESCRIPTION  | UNIT OF MEASURE  | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|--|------------------|----------------|----------|----------------|
| 3    | 3-1. ✓   | Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way ✓ | Per Round Trip ✓ | \$452.48 ✓     | 1 ✓      | \$ 452.48      |
| 3    | 5-2. ✓   | Hand Auger Boring ≤ 10 foot total depth ✓  | Per Boring ✓     | \$133.51 ✓     | 2 ✓      | \$ 267.02      |
| 3    | 8-6. ✓   | Soil/Sediment Sample Collection ✓  | Per Sample ✓     | \$116.56 ✓     | 3 ✓      | \$ 349.68      |
| 3    | 9-5. ✓   | Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310) ✓                  | Per Sample ✓     | \$87.77 ✓      | 2 ✓      | \$ 175.54      |
| 3    | 9-8. ✓   | Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO) ✓                        | Per Sample ✓     | \$72.22 ✓      | 1 ✓      | \$ 72.22       |

**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726

Contract #: GC833

PO #: AF4CB5

DADE CNTY SCHOOL BD-

Advanced Environmental

Facility Name: TRANSPORTATION

Contractor: Technologies, LLC

CO #: 12

|   |          |  |                      |            |     |           |
|---|----------|--|----------------------|------------|-----|-----------|
| 3 | 9-8.A. ✓ | Soil, TRPH Fractionation (MADEP-EPH/VP Method or TPHCWG Direct Method) ✓ | Per Sample ✓         | \$261.00 ✓ | 1 ✓ | \$ 261.00 |
| 3 | 8-11. ✓  | Electronic Data Deliverables (EDD) ✓                                     | Per Sampling Event ✓ | \$100.00 ✓ | 1 ✓ | \$ 100.00 |

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

| Task               | Deliverable Name | Previous Due Date | New Due Date | Change Order Subtotals |
|--------------------|------------------|-------------------|--------------|------------------------|
| 3                  | TSAR ✓           | 6/29/2018 ✓       | -            | \$ 1,677.94            |
| Period of Service: |                  | 8/28/2018 ✓       | -            | \$ 1,677.94            |

Previous End Date      New End Date      Total Authorized Cost (FDEP Share: 100%)

Contractor Representative: Andres Sanchez  
(Print Name)

[Signature]  
(Signature)

5/2/2018  
(Date)

FDEP Site Manager: Rafael Maldonado  
(Print Name)

[Signature]  
(Signature)

5/2/2018  
(Date)

Administrative Reviewer: Joel Johnson  
(Print Name)

[Signature]  
(Signature)

5/7/18  
(Date)

Reviewer (optional): [Signature] 5/14/18

Technical Approval (optional): \_\_\_\_\_

Cost Center Approval (optional): \_\_\_\_\_

**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726  
 DADE CNTY SCHOOL BD-  
 Facility Name: TRANSPORTATION  
 Site Manager Name: Rafael Maldonado  
 Site Manager Phone: (561)793-3849 Ext 3904  
 Site Manager Email: rmaldonado@ene.com

Contract #: GC833  
 Advanced Environmental  
 Contractor: Technologies, LLC  
 Contractor Phone: (863) 614-0692  
 FDEP Cost Share %: 100.00%

PO #: AF4CB5  
 CO #: 13  
 CO Type: Date Extension Only  
 Ref #: 833-021A

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.



*Description of Change and Justification: Include complete description of who, what, where, when, how and why.*  
 Due to a lab error, AET requests a time extension in order to remobilize to the site, collect confirmatory soil samples, and submit the Task 3: TSAR deliverable. AET will be onsite on 8/25/18 to collect confirmatory soil samples.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items

| Task               | Deliverable Name | Previous Due Date | New Due Date | Change Order Subtotals |
|--------------------|------------------|-------------------|--------------|------------------------|
| 3                  | TSAR             | 6/29/2018         | 8/28/2018    | \$ -                   |
| Period of Service: |                  | 8/28/2018         | 10/27/2018   | \$ -                   |

Contractor Representative: Andres Sanchez  
 (Print Name)  
 FDEP Site Manager: Rafael Maldonado  
 (Print Name)  
 Administrative Reviewer: \_\_\_\_\_  
 (Print Name)

|   |                           |
|---|---------------------------|
| <u></u><br>(Signature) | <u>6/4/2018</u><br>(Date) |
| <u></u><br>(Signature) | <u>8/4/2018</u><br>(Date) |
| _____<br>(Signature)  | _____<br>(Date)           |



**Request for Change - Authorization for Change in Scope of Work**

9-Digit Facility ID #: 138628726  
 Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION  
 Site Manager Name: Rafael Maldonado  
 Site Manager Phone: (561)793-3849 Ext 3904  
 Site Manager Email: rmaldonado@ene.com

Contract #: GC833  
 Contractor: Advanced Environmental Technologies, LLC  
 Contractor Phone: (863) 614-0692  
 FDEP Cost Share %: 100.00%

PO #: AF4CB5  
 CO #: 15  
 CO Type: Date Extension Only  
 Ref #: 833-021A

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

*Description of Change and Justification: Include complete description of who, what, where, when, how and why.*

Due to time delays to resample and receive analytical results from laboratory, AET requests a time extension in order to complete the TSAR. AET is requesting a 30 day time extension for the Task 3 TSAR and the Period Of Service.

| TASK | PAY ITEM | DESCRIPTION | UNIT OF MEASURE | PAY ITEM PRICE | QUANTITY | EXTENDED PRICE |
|------|----------|-------------|-----------------|----------------|----------|----------------|
|------|----------|-------------|-----------------|----------------|----------|----------------|

\*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

| Task | Deliverable Name   | Previous Due Date | New Due Date | Change Order Subtotals |
|------|--------------------|-------------------|--------------|------------------------|
| 3    | TSAR               | 10/26/2018        | 11/26/2018   | \$ -                   |
|      | Period of Service: | 12/26/2018        | 1/25/2019    | \$ -                   |

Contractor Representative: Daniel Warmke  
 (Print Name)

  
 (Signature)

Total Authorized Cost  
 (FDEP Share: 100%)  
10/12/2018  
 (Date)

FDEP Site Manager: Rafael Maldonado  
 (Print Name)

  
 (Signature)

10/12/2018  
 (Date)

Administrative Reviewer: \_\_\_\_\_  
 (Print Name)

\_\_\_\_\_  
 (Signature)

\_\_\_\_\_  
 (Date)

***Medium Risk Site - 3***  
***Farina's Radiators***

RECEIVED

JUL 26 1996

DERM  
WASTE MANAGEMENT  
DIVISION

**FIRST QUARTER SAMPLING REPORT**

**Submitted For:**

**FORMER FARINA RADIATOR  
918 SW 69TH AVENUE  
MIAMI, FLORIDA**

**Submitted To:**

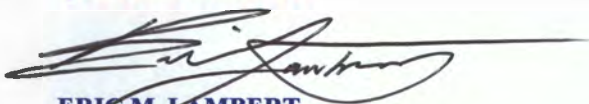
**DADE COUNTY DEPARTMENT OF  
ENVIRONMENTAL RESOURCES MANAGEMENT  
33 SW 2ND AVENUE  
MIAMI, FL 33130-1540**

**Submitted By:**

***Environmental Site Assessments, Inc.*  
8390 NW 53rd Street, Suite 200  
Miami, Florida 33166**

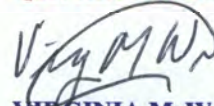
**July 19, 1996**

**QSR PREPARED BY:**

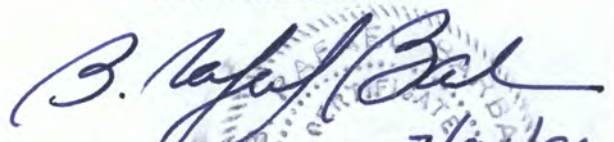


**ERIC M. LAMBERT  
ENVIRONMENTAL GEOLOGIST**

**QSR REVIEWED BY:**



**VIRGINIA M. WALSH  
SENIOR GEOLOGIST**



**B. RAFAEL BARBA  
PROFESSIONAL GEOLOGIST #168**



All ESA's reports are produced in an environmental conservative format.

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## APPENDICES

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## 1.0 INTRODUCTION

This report has been prepared to summarize the methodology and results of the first Quarter Sampling Report (QSR), conducted at the former Farina Radiator Shop, located at 918 SW 69th Avenue, Miami, Dade County, Florida. A location map is provided as **Figure 1, Appendix A**. Environmental Site Assessments, Inc. (CompQAP #940263G) was retained by Mr. Sergio Pino, president of Century Plumbing Wholesale, to conduct a Monitoring Only Plan (MOP) for a period of one (1) year. The Contamination Assessment Report Addendum/Monitoring Only Plan (CARA/MOP), submitted by Environmental Site Assessments, Inc. (ESA) on April 2, 1996, was approved by the Dade County Department of Environmental Resources Management (DERM), in an April 17, 1996 correspondence. A copy of the DERM correspondence, approving the MOP, is provided as **Appendix B**.

## 2.0 GROUNDWATER SAMPLING AND RESULTS

The MOP required the sampling of MW-A, MW-4, and MW-5, and analysis for Oil and Grease, using EPA Method 413.1, and Volatile Organic Aromatics (VOA's), using EPA Method 602. The locations and identifications of MW-A, MW-4, and MW-5 are illustrated in a site map, provided as **Figure 2, Appendix A**.

The MW-A, MW-4, and MW-5 groundwater samples were collected on July 19, 1996, by Precision Environmental Laboratory, Inc. in accordance with their FDEP approved CompQAP #920323G. The MW-A groundwater sample contained 3.16 mg/L of Oil & Grease, 1.98 ug/L of Benzene, and 19.21 ug/L of Total BTEX. The MW-4 groundwater sample revealed 1.4 mg/L of Oil & Grease, and MW-5 indicated all levels were Below Detectable Limits (BDL). The results of the First QSR groundwater sampling event are summarized in **Table 1 - Appendix C**.

A copy of the laboratory analytical results and chain of custody is provided in **Appendix D**.

## 3.0 SITE-SPECIFIC GROUNDWATER FLOW

In accordance with the April 17, 1996, DERM correspondence, ESA conducted a groundwater elevation survey on July 17, 1996, to determine the direction of site-specific groundwater flow. The groundwater elevations were surveyed from four (4) of the five (5) on-site monitoring wells, including MW-A, MW-4, MW-5, and MW-6. ESA has determined the site-specific groundwater flow to be at a steady state, as there appears to be no significant gradient. The water table elevation measurements are summarized as **Table 2 - Appendix C**. A site map, also providing survey results, is included as **Figure 3, Appendix A**.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

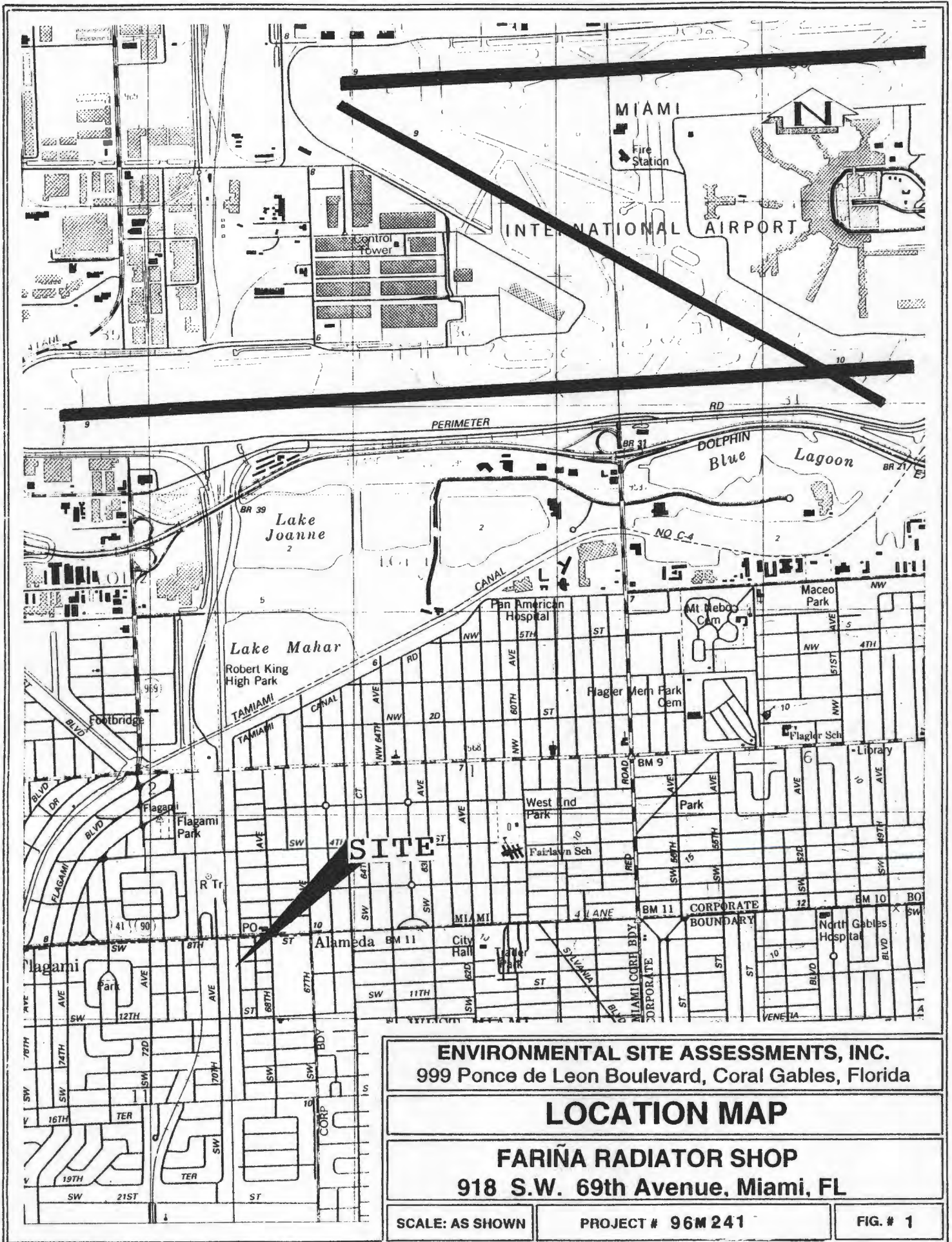
### 4.1 Conclusions

Based on the first QSR laboratory analytical results, the groundwater samples from MW-A, MW-4, and MW-5 revealed concentrations of Oil & Grease and VOA's which are BDL, or below the MCL's, with the exception of 1.98 ug/L of Benzene in MW-A.

### 4.2 Recommendations

Environmental Site Assessments, Inc. (ESA) recommends that the second quarterly groundwater sampling event, for the former Farina Radiator Shop facility, be performed on or around October 19, 1996, as approved in the April 17, 1996 DERM correspondence. DERM will be properly notified and the results will be submitted in the second QSR.

***APPENDIX A***



**ENVIRONMENTAL SITE ASSESSMENTS, INC.**  
 999 Ponce de Leon Boulevard, Coral Gables, Florida

**LOCATION MAP**

**FARIÑA RADIATOR SHOP**  
 918 S.W. 69th Avenue, Miami, FL

SCALE: AS SHOWN

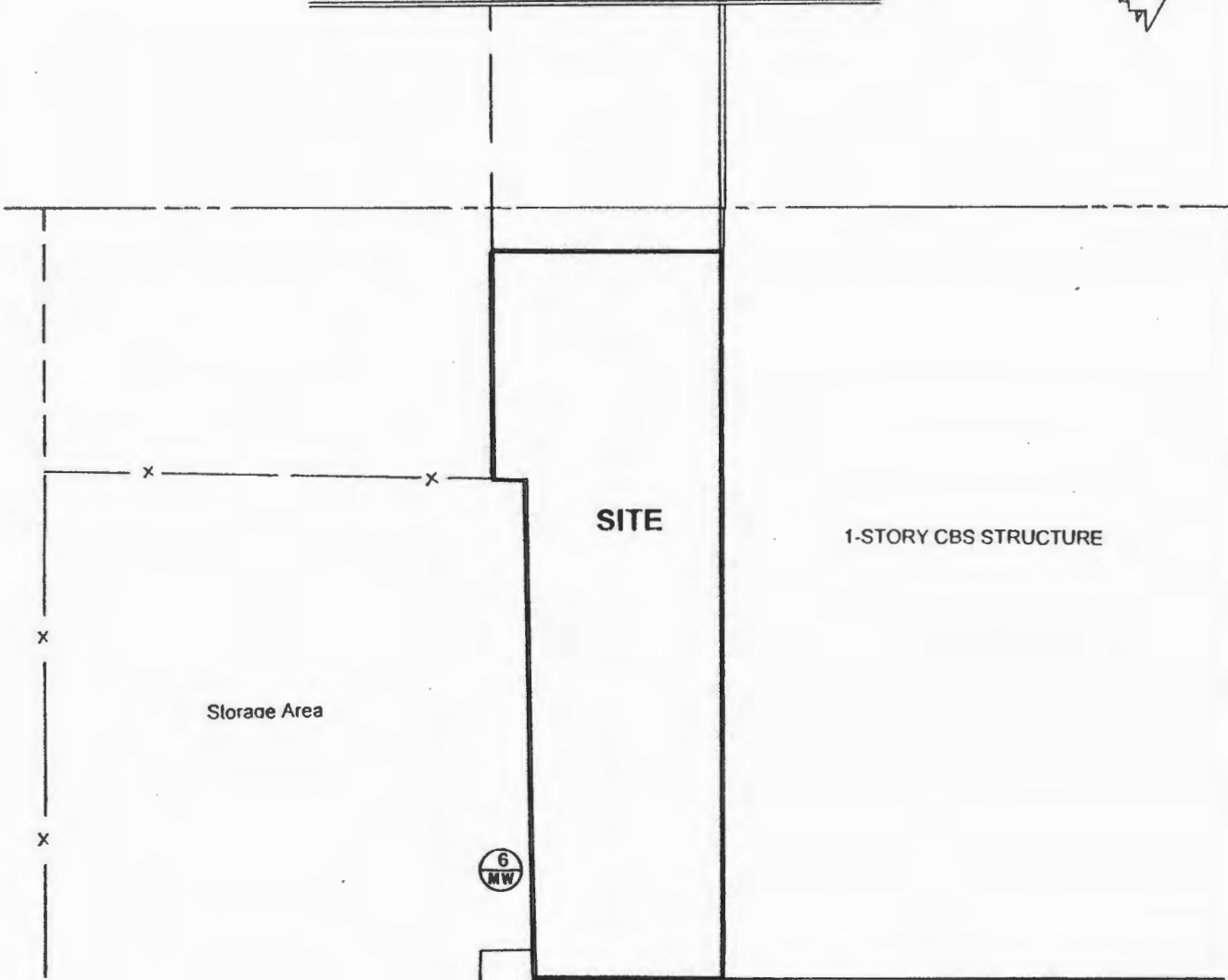
PROJECT # 96M 241

FIG. # 1



⊕ B

Concrete Block Wall



SITE

1-STORY CBS STRUCTURE

Storage Area



6  
MW

⊕ A

5  
MW

4  
MW

0 10 20

-  EXISTING MONITORING WELL
-  NEW MONITORING WELL

**ENVIRONMENTAL SITE ASSESSMENTS, INC.**  
999 Ponce de Leon Boulevard, Coral Gables, Florida

**MONITORING WELL LOCATION**

**FARIÑA RADIATOR SHOP**  
918 S.W. 69th Avenue, Miami, FL

SCALE: AS SHOWN

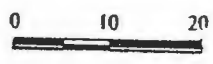
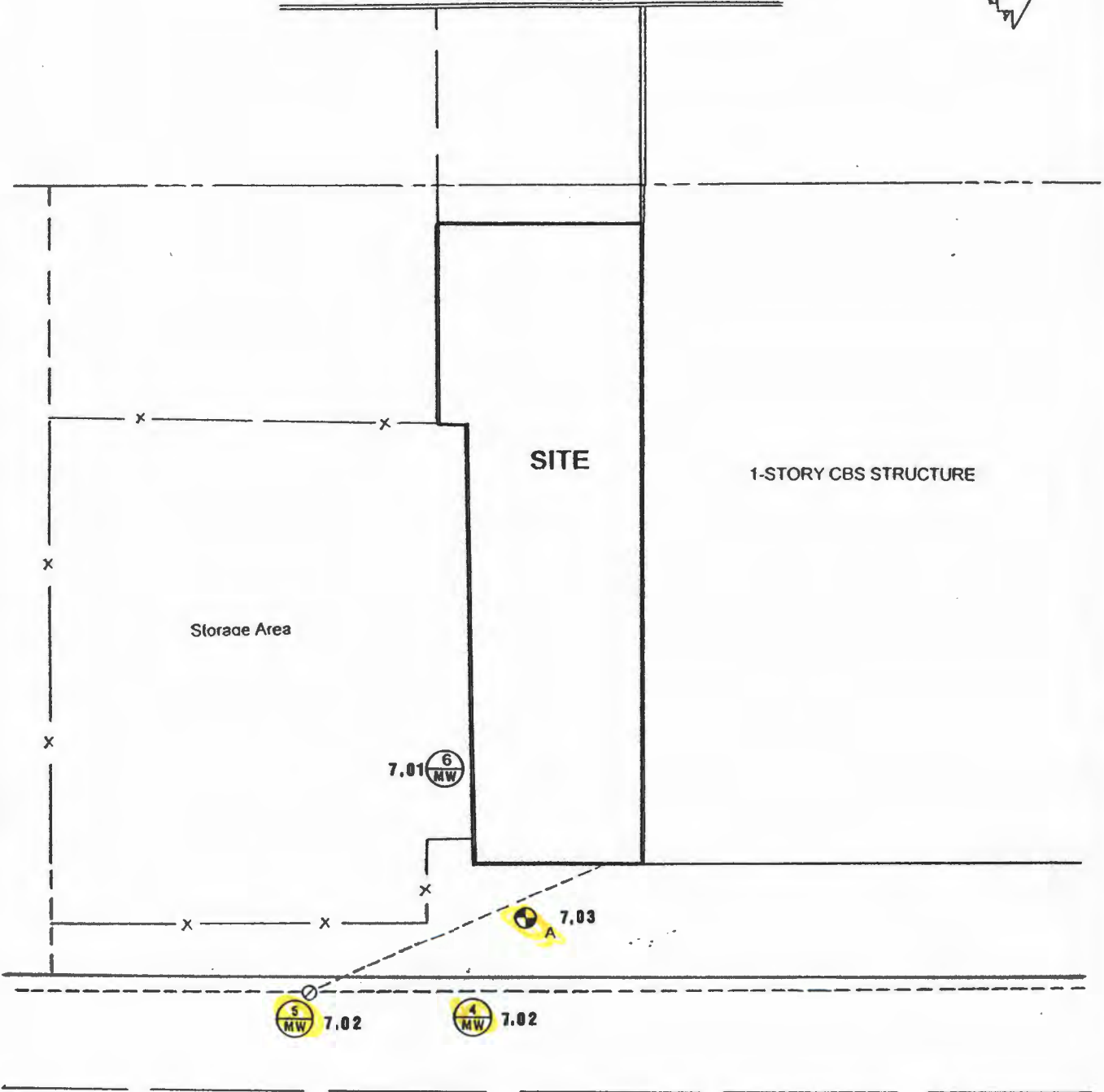
PROJECT # 96M241



FIG. # 2



⊕ B

Concrete Block Wall



-  EXISTING MONITORING WELL
-  NEW MONITORING WELL

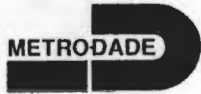
|   |                  |                 |
|---|------------------|-----------------|
| <b>ENVIRONMENTAL SITE ASSESSMENTS, INC.</b><br>999 Ponce de Leon Boulevard, Coral Gables, Florida |                  |                 |
| <b>SITE-SPECIFIC GROUNDWATER FLOW</b>   |                  |                 |
| <b>FARIÑA RADIATOR SHOP</b><br>918 S.W. 69th Avenue, Miami, FL                                    |                  |                 |
| SCALE: AS SHOWN   | PROJECT # 96M241 | FIG. # <b>3</b> |

***APPENDIX B***

RECEIVED APR 24 1996

APR 24 1996

METROPOLITAN DADE COUNTY, FLORIDA



ENVIRONMENTAL RESOURCES MANAGEMENT  
POLLUTION PREVENTION DIVISION  
SUITE 800  
33 S.W. 2nd AVENUE  
MIAMI, FLORIDA 33130-1540  
(305) 372-6817

April 17, 1996

Mr. Sergio Pino, President  
Century Plumbing Wholesale, Inc.  
901 S.W. 69 Avenue  
Miami, Florida 33144

CERTIFIED MAIL NO. Z-146 645 774  
RETURN RECEIPT REQUESTED

RE: Contamination Assessment Report Addendum and Monitoring Only Plan (CARA/MOP) dated April 2, 1996, and submitted by Environmental Site Assessments (ESA), Inc. for the former Farina's Radiator Shop located at 918 S.W. 69 Avenue, Miami, Dade County, Florida.

Dear Mr. Pino:

The Hazardous Waste Section of the Department of Environmental Resources Management (DERM) has reviewed the referenced submittal, received April 2, 1996, and hereby approves the MOP as follows:

You are required to complete the monitoring program for a minimum of one (1) year and as outlined below:

| <u>Monitoring Wells</u> | <u>Parameters</u>                | <u>Sampling Frequency</u> |
|-------------------------|----------------------------------|---------------------------|
| MW-A, 4, and 5          | EPA Method 602<br>and Oil/grease | Quarterly                 |

If contaminant levels increase significantly during the monitoring period, then the appropriate wells must be resampled within fourteen (14) days of the initial sampling date to confirm levels. If the resampling results indicate that plume migration or new discharges have occurred, then further contamination assessment and/or remediation may be required.

In addition, if contaminant concentrations do not decrease below applicable groundwater standards after the duration of the monitoring period, then additional monitoring, supplemental contamination assessment, and/or remediation may be required.

Groundwater elevations must be surveyed from a minimum of three (3) monitoring wells during each quarterly sampling event to determine the site specific groundwater flow direction. The groundwater flow direction is required to predict potential migration trends for the dissolved contaminant plume(s). Survey data and contour maps illustrating groundwater elevations must be provided with all quarterly reports to confirm the flow direction.

Mr. Sergio Pino  
Former Farina Radiator Shop  
Page 2

A complete round of samples is required from all existing wells (i.e., MW-A, B, 4, 5, and 6) during the fourth quarterly sampling event. Said samples shall be analyzed by EPA Method 602, oil and grease, and total lead. Be advised that the DERM Project Engineer hereby requests to be notified verbally and in writing at least seven (7) working days prior to the implementation of the referenced sampling event in order to split samples for possible case closure.

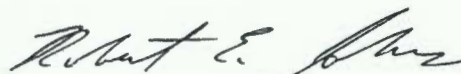
Additionally, DERM requests the option to split samples during all quarterly monitoring event at the subject site. Therefore, the HWS Engineer must be notified verbally and in writing at least seven (7) working days prior to conducting any field activities. If the data subsequently submitted varies substantially from DERM's split sample analytical results, a complete resampling using two independent certified laboratories will be required.

Therefore, within ninety (90) days of receipt of this letter, you are hereby required to submit to this Department for review the first Quarterly Monitoring Report (QMR #1). Each QMR shall include all analytical results and corresponding chain of custody records, groundwater elevation data, a plan for further action as warranted by the data (i.e., additional monitoring, supplemental assessment, remediation, and/or no further action), and the appropriate review fee (i.e., \$100). Subsequent quarterly reports must be submitted every ninety (90) days thereafter.

Failure to adhere to the items and time frames stipulated above shall result in your case being forwarded to DERM's Code Enforcement Section for further enforcement action. Be advised that an additional late fee of \$100.00 will be applied to documents received after the required due date.

If you have any questions regarding this letter, please contact Alex Montalvo, Engineer, of the Hazardous Waste Section at (305) 372-6887.

Sincerely,



Robert E. Johns, P.E., Chief  
Hazardous Waste Section  
POLLUTION PREVENTION DIVISION

AM:vx:2916

pc: Mark J. Pettit, DERM  
Roberto Abrahante, DERM (IW5-640, File #601)  
Paul Wierzbicki, P.G., FDEP-West Palm Beach  
Craig C. Clevenger, ESA, Inc.

***APPENDIX C***

**TABLE I**  
**FORMER FARINA RADIATOR SHOP - FIRST QSR**  
**LABORATORY ANALYTICAL RESULTS**

07/19/96  
 Project # 96-M241

| PARAMETER            | DERM  | Units | 1/30/95 MW-A | MW-4 | MW-5 |
|----------------------|-------|-------|--------------|------|------|
| Oil & Grease (water) | MCL   | mg/kg | 3.16         | 1.40 | BDL  |
| VOA                  | 5-15  | ug/l  | <A X         |      | BDL  |
| MTBE                 | 50.00 | ug/L  | BDL          | BDL  | BDL  |
| BTEX*                | 50.00 | ug/L  | 19.21        | BDL  | BDL  |
| Benzene*             | 1     | ug/L  | 1.98         | BDL  | BDL  |
| Toluene*             | 50.00 | ug/L  | 1.30         | BDL  | BDL  |
| Ethylbenzene*        | 50.00 | ug/L  | 6.13         | BDL  | BDL  |
| m & p Xylene*        | 50.00 | ug/L  | 3.67         | BDL  | BDL  |
| O-Xylene*            | 50.00 | ug/L  | 6.13         | BDL  | BDL  |

Pb 0.7 mg/l  
 Zn 0.65  
 Cu BDL

\* Total = Total BTEX Concentration  
 VOA - Volatile Organic Aromatics - EPA 8021 (602)  
 mg/l - milligrams per liter (approx. = ppm)  
 ug/l - micrograms/liter (approx. = ppb)  
 BDL - Below Detectable Levels  
 MCL - Maximum Concentration Levels

**TABLE 2**  
**FORMER FARINA RADIATOR SHOP**  
**WATER TABLE ELEVATIONS - July 17, 1996**

| <b>MONITORING<br/>WELL #</b> | <b>TOP OF CASING<br/>(feet)</b> | <b>DEPTH TO<br/>WATER<br/>(feet)</b> | <b>WATER TABLE<br/>ELEVATION (feet)</b> |
|------------------------------|---------------------------------|--------------------------------------|---|
| A                            | 13.81                           | 6.78                                 | 7.03                                    |
| 4                            | 13.13                           | 6.11                                 | 7.02                                    |
| 5                            | 13.37                           | 6.35                                 | 7.02                                    |
| 6                            | 13.34                           | 6.33                                 | 7.01                                    |

***APPENDIX D***

# PRECISION ENVIRONMENTAL LABORATORY, INC.

first in quality • first in service

ESAINC000012  
Eric Lambert  
Environmental Site Assess(ESA)  
8390 NW 53rd Street, #200 Kroger Center  
Miami, FL 33166

Page 1  
July 22, 1996  
Submission # 9607000611  
Order # 164172  
FDER CompQAP# 920323G  
HRS Certification# E86349, 86413

Site Location/Project  
Farina Radiator Shop 918 SW 69Th Avenue Miami, FL  
Farina Radiator Shop

Sample I.D.: MW-A  
Collected: 07/19/96 09:30  
Received: 07/19/96 17:00  
Collected by: W.M.Duffield

| PARAMETER                               | RESULT    | UNITS | METHOD    | DETECTION LIMIT | DATE EXT. | DATE ANALY. | ANALYST |
|---|-----------|-------|-----------|-----------------|-----------|-------------|---------|
| Oil and Grease                          | 3.16 < 15 | mg/L  | 413.1     | 1.0             | 07/20/96  | 07/20/96    | LT      |
| 8021 VOA {602} Compounds in Water by GC |           |       | MEDF      | 1               |           |             |         |
| Methyl-tert-butyl-ether                 | BDL       | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Benzene                                 | 1.98 > /  | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Toluene                                 | 1.30      | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Chlorobenzene                           | BDL       | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Ethylbenzene                            | 6.13      | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| m & p Xylene                            | 3.67      | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| o- Xylene                               | 6.13      | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,3-Dichlorobenzene                     | BDL       | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,4-Dichlorobenzene                     | BDL       | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,2-Dichlorobenzene                     | BDL       | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |

\*\*\*BDL: Indicates Analyte is Below Detection Limit\*\*\*

\*\*\*Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field\*\*\*

\*\*\*Qualifier following result conforms to FAC 62-160 Table 7\*\*\*

\*\*\*Unless otherwise noted, mg/Kg denotes wet weight\*\*\*

\*\*\*MEDF: Matrix Effected Dilution Factor\*\*\*

Michael A. Spitzer, Laboratory Director

ESAINC000012  
 Eric Lambert  
 Environmental Site Assess(ESA)  
 8390 NW 53rd Street, #200 Kroger Center  
 Miami, FL 33166

Page 2  
 July 22, 1996  
 Submission # 9607000611  
 Order # 164173  
 FDER CompQAP# 920323G  
 HRS Certification# E86349, 86413

Site Location/Project  
 Farina Radiator Shop 918 SW 69Th Avenue Miami, FL  
 Farina Radiator Shop

Sample I.D.: MW-4  
 Collected: 07/19/96 10:00  
 Received: 07/19/96 17:00  
 Collected by: W.M.Duffield

| PARAMETER                               | RESULT            | UNITS | METHOD    | DETECTION LIMIT | DATE EXT. | DATE ANALY. | ANALYST |
|---|-------------------|-------|-----------|-----------------|-----------|-------------|---------|
| Oil and Grease                          | 1.4 <i>&lt;15</i> | mg/L  | 413.1     | 1.0             | 07/20/96  | 07/20/96    | LT      |
| 8021 VOA {602} Compounds in Water by GC |                   |       | MEDF      | 1               |           |             |         |
| Methyl-tert-butyl-ether                 | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Benzene                                 | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Toluene                                 | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Chlorobenzene                           | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Ethylbenzene                            | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| m & p Xylene                            | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| o- Xylene                               | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,3-Dichlorobenzene                     | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,4-Dichlorobenzene                     | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,2-Dichlorobenzene                     | BDL               | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |

\*\*\*BDL: Indicates Analyte is Below Detection Limit\*\*\*  
 \*\*\*Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field\*\*\*  
 \*\*\*Qualifier following result conforms to FAC 62-160 Table 7\*\*\*  
 \*\*\*Unless otherwise noted, mg/Kg denotes wet weight\*\*\*  
 \*\*\*MEDF: Matrix Effected Dilution Factor\*\*\*

*Michael Spitzer*  
 Michael A. Spitzer, Laboratory Director

ESAINC000012  
 Eric Lambert  
 Environmental Site Assess(ESA)  
 8390 NW 53rd Street, #200 Kroger Center  
 Miami, FL 33166

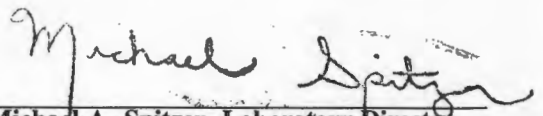
Page 3  
 July 22, 1996  
 Submission # 9607000611  
 Order # 164174  
 FDER CompQAP# 920323G  
 HRS Certification# E86349, 86413

Site Location/Project  
 Farina Radiator Shop 918 SW 69Th Avenue Miami, Fl  
 Farina Radiator Shop


Sample I.D.: MW-5  
 Collected: 07/19/96 10:30  
 Received: 07/19/96 17:00  
 Collected by: W.M.Duffield

| PARAMETER                               | RESULT | UNITS | METHOD    | DETECTION LIMIT | DATE EXT. | DATE ANALY. | ANALYST |
|---|--------|-------|-----------|-----------------|-----------|-------------|---------|
| Oil and Grease                          | BDL    | mg/L  | 413.1     | 1.0             | 07/20/96  | 07/20/96    | LT      |
| 8021 VOA {602} Compounds in Water by GC |        |       | MEDF      | 1               |           |             |         |
| Methyl-tert-butyl-ether                 | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Benzene                                 | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Toluene                                 | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Chlorobenzene                           | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| Ethylbenzene                            | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| m & p Xylene                            | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| o- Xylene                               | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,3-Dichlorobenzene                     | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,4-Dichlorobenzene                     | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |
| 1,2-Dichlorobenzene                     | BDL    | ug/L  | 5030/8021 | 1.000           | 07/20/96  | 07/20/96    | MD      |

\*\*\*BDL: Indicates Analyte is Below Detection Limit\*\*\*  
 \*\*\*Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field\*\*\*  
 \*\*\*Qualifier following result conforms to FAC 62-160 Table 7\*\*\*  
 \*\*\*Unless otherwise noted, mg/Kg denotes wet weight\*\*\*  
 \*\*\*MEDF: Matrix Effected Dilution Factor\*\*\*

  
 Michael A. Spitzer, Laboratory Director

**PRECISION ENVIRONMENTAL LABORATORY**  
CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

Submission Code: **96107-6711**  
Order: **164172-164174**  
Entered to file: 

10200 USA TODAY WAY, MIRAMAR, FLORIDA 33025  
(305) 431-4550 • NATL WATS (800) LAB-5550 • FAX (305) 431-1959

Original - Return w/Report

Yellow - Lab Copy

Pink - Sampler Copy

FDEP Facility No. \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_  
Sampling Compair NO. \_\_\_\_\_  
Approval Date: \_\_\_\_\_

Report To: \_\_\_\_\_  
Billing Address: \_\_\_\_\_  
Report To Address: \_\_\_\_\_

Project Number/Name: **AS NEEDED** DAY: **SA** REP: **12** GRID: **STOP: 0** Site Location: **FERRIS PARKWAY SHOP**

Project Contact: \_\_\_\_\_ Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

Alternate Contact: \_\_\_\_\_ Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

Sampled By (print): **W.M. DUFFIELD** Sampler's Signature: 

| I<br>T<br>E<br>M | SAMPLE ID | DATE COLLECTED | TIME COLLECTED | PH |   |   | TEMP °C |   |   | CONDUCTIVITY |   |   | MATRIX<br>DW<br>SW<br>GW<br>SED<br>S<br>EFF<br>HW<br>BIO<br>SA | SAMPLE LOCATION/<br>JOB DESCRIPTION<br><br>(optional if needed<br>when samples are from<br>different site locations) | #<br>CONTAINERS | ANALYSIS REQUIRED | PLACE NAME OR METHOD NUMBER OF<br>TESTS NEEDED IN LARGE BOXES BELOW.<br>(✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED | Temp °C<br>Sealed (Yes/No) | Lot Number of<br>Sampling<br>Containers<br>Used |
|------------------|-----------|----------------|----------------|----|---|---|---------|---|---|--------------|---|---|--|--|-----------------|-------------------|---|----------------------------|---|
|                  |           |                |                | F  | L | D | F       | L | D | F            | L | D |  |  |                 |                   |   |                            |   |
| 1                |           | 7/19/96        | 5930           |    |   |   |         |   |   |              |   |   |  | 164172   | 3               | ✓                 |   | 4                          |   |
| 2                |           | ↓              | 1030           |    |   |   |         |   |   |              |   |   |  | 164173   | 3               | ✓                 |   |                            |   |
| 3                |           |                |                |    |   |   |         |   |   |              |   |   |  | 164174   | 3               | ✓                 |   |                            |   |
| 4                |           |                |                |    |   |   |         |   |   |              |   |   |  |  |                 |                   |   |                            |   |
| 5                |           |                |                |    |   |   |         |   |   |              |   |   |  |  |                 |                   |   |                            |   |
| 6                |           |                |                |    |   |   |         |   |   |              |   |   |  |  |                 |                   |   |                            |   |
| 7                |           |                |                |    |   |   |         |   |   |              |   |   |  |  |                 |                   |   |                            |   |
| 8                |           |                |                |    |   |   |         |   |   |              |   |   |  |  |                 |                   |   |                            |   |
| 9                |           |                |                |    |   |   |         |   |   |              |   |   |  |  |                 |                   |   |                            |   |
| 10               |           |                |                |    |   |   |         |   |   |              |   |   |  |  |                 |                   |   |                            |   |

Special Comments: \_\_\_\_\_

Relinquished Signature:  Date: **7/19/96** (2) Relinquished by Signature: \_\_\_\_\_

Company: \_\_\_\_\_ Time: \_\_\_\_\_

(1) Received by Signature:  Date: **7/19/96** (2) Received by Signature: \_\_\_\_\_

Company: \_\_\_\_\_ Time: **17:00** Company: \_\_\_\_\_ Time: \_\_\_\_\_

QA/QC Report Needed?: Yes No (See price guide for applicable fees)

Report Format: Standard Other (specify) \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

DUE DATE REQUESTED: \_\_\_\_\_  
Confirmation # \_\_\_\_\_  
Coating Code: \_\_\_\_\_  
Misc. Charges: \_\_\_\_\_

SHADED AREAS ARE FOR LAB USE ONLY